# Pacific Islands Fisheries Science Center

# Fishery Statistics of the Western Pacific

## Volume 22

Territory of American Samoa (2005)
Commonwealth of the Northern Mariana Islands (2005)
Territory of Guam (2005)
State of Hawaii (2005)

Compiled by

David C. Hamm, Nathan T. S. Chan, and Craig J. Graham

July 2007

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Administrative Report H-07-03

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> *Author. Date. Title.* Pacific Islands Fish. Sci. Cent., Natl. Mar. Fish. Serv., NOAA, Honolulu, HI 96822-2396. Pacific Islands Fish. Sci. Cent. Admin. Rep. H-*XX-YY*, *xx* p.

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Territory of American Samoa (2005)
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July 2007

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# PREFACE

Over the years, the demand for data and information concerning marine fisheries has greatly increased. To help meet these increased needs in the central and western Pacific areas, the National Marine Fisheries Service's (NMFS) Southwest Fisheries Science Center (SWFSC) initiated the Western Pacific Fishery Information Network (WPacFIN) to assist Pacific island fisheries agencies in upgrading their data collecting, processing, and reporting capabilities.

In 1982, these agencies formed a Fisheries Data Coordinating Committee (FDCC) and a FDCC Technical Subcommittee to help guide, coordinate, and monitor all of their fisheries data-related activities. Significant progress has been made by all participating agencies, particularly in the areas of upgrading data collecting and processing systems.

In a major step to improve and coordinate the data reporting and distribution systems of the agencies, in May 1985 the FDCC agreed to produce a combined document reporting each island's major fisheries statistics. Production of the document would be the responsibility of the FDCC Technical Subcommittee and would be coordinated by the WPacFIN Program Manager. Each agency would supply the data required to produce the tables and graphs for its respective section, and central WPacFIN staff would produce and distribute the document as part of the Administrative Report Series.

In April 2003, NMFS created a new Pacific Islands Region composed of the Pacific Islands Fisheries Science Center (PIFSC, formerly SWFSC's Honolulu Laboratory) and the Pacific Islands Regional Office (PIRO, formerly Southwest Regional Office's Pacific Islands Area Office). As such, this report is now affiliated with PIFSC rather than SWFSC.

This is the 22nd volume in the series, "Fishery Statistics of the Western Pacific," and it contains year 2005 summaries of commercial landings for American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and Hawaii. As with previous volumes, it is divided into sections, one each for the major island areas.

## INTRODUCTION

This report is compiled by fisheries agencies participating in the Western Pacific Fishery Information Network (WPacFIN, formerly referenced as WPACFIN), a collaboration among fisheries agencies in Hawaii, Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and American Samoa. WPacFIN's goal is to improve the availability and dissemination of fisheries information. Participating groups include

| | |
|---|---|
| **American Samoa** | Department of Marine and Wildlife Resources (DMWR) |
| | Pacific Islands Regional Office (PIRO) Fisheries Monitoring Field Office, American Samoa |
| **Commonwealth of the Northern Mariana Islands (CNMI)** | Division of Fish and Wildlife (DFW) |
| **Guam** | Division of Aquatic and Wildlife Resources (DAWR) |
| | Bureau of Statistics and Plans (BSAP; formerly Department of Commerce) |
| **Hawaii** | Hawaii Division of Aquatic Resources (HDAR) |
| | Pacific Islands Fisheries Science Center (PIFSC) |
| | Pacific Islands Regional Office (PIRO) |
| | Western Pacific Regional Fishery Management Council |

WPacFIN and these groups collect, computerize, edit, and process data from the islands. WPacFIN staff at the Pacific Islands Fisheries Science Center then use these data to create the summaries and graphs found in this document.

Data from DMWR, DAWR, and DFW are supplied on portable computer media in established WPacFIN database formats. Data for Hawaii are provided by HDAR through an electronic telecommunications link. Once data from all agencies are put into the proper format on the central WPacFIN computer and appropriate edit, adjustment, and verification procedures are completed, summary tables and charts are produced using software developed by WPacFIN staff and commercially available software.

## PROGRESS

In 1981 when WPacFIN began assisting agencies in improving their data collecting and processing systems, only the State of Hawaii had computerized processing. By mid-1982, fisheries offices in American Samoa, Guam, and the CNMI were using WPacFIN-supplied computers to process data. Since that time, these agencies have made significant improvements to their data collecting systems and have established sound, automated data processing systems. Most agencies can now provide preliminary fishery statistics to WPacFIN within 45 days of the date of collection.

In particular, the HDAR has significantly improved its procedures for editing, updating, and processing Hawaii's data; it has reduced the lag time in data processing from about 2.5 years to less than 3 months for most data. The biggest problems still facing HDAR in improving its data systems are reducing the delinquency of fisher reporting and implementing a validation system to ensure that what gets reported by fishers is accurate. A Dealer Reporting System has been implemented to augment the Fishermen's Reporting System and has helped address this issue, and efforts are continuing to develop and implement other improvements to the Hawaii fisheries monitoring programs.

## PRECAUTIONS

Data collecting and processing systems vary greatly among Pacific island fisheries agencies. Although much standardization has taken place and is continuing, there remain unique aspects of each island's system based on local needs and capabilities.

When using summaries contained in this report, especially if making comparisons, keep in mind the nature of the systems used to produce the data. For example, Hawaii's commercial landings data are based on mandatory monthly reporting by fish dealers and licensed commercial fishers as well as NOAA Fisheries longline logbooks; CNMI and Guam's data are based on voluntary reporting of major fish buyers using government-provided "trip-ticket" invoices, adjusted to represent 100% coverage, and referenced as "Estimated Commercial Landings"; American Samoa data are based on a complex integration of data from a boat-based creel survey and data expansion system for a portion of the fisheries, mandatory logbooks and a size-frequency sampling program for the longline fishery, and a mandatory trip ticket invoice reporting system for local sales. Each system has advantages and disadvantages, and the user should be aware of them when comparing or interpreting data. In addition, WPacFIN staff and the island agencies are continually improving the data collecting and processing systems in each area. Because the improvements usually result in updates to the estimates of total and commercial landings, the data in this volume may not match exactly with data in previous volumes of this report series.

The user should also be aware that species assemblages vary among island groups, as do cultural preferences and principal fishing techniques and gear. Population size is of particular importance when interpreting the relative value and importance of the fisheries. Explanations of data collecting and processing systems are provided in each island's section.

## CONTENTS

This document is divided into sections by island group. Each section contains reports on the monthly and annual landings by species and species groups for the commercial fleet.

## DEFINITIONS

In addition to the description of the systems and the monthly and annual reports, each section contains graphs of some of the summary fishery statistics of particular interest or importance to participating WPacFIN agencies. Several categories have been defined for each island's fisheries. Because of differences in reporting systems and capabilities among the islands, species contained within each category may vary, but all categories are documented in each island's section. Overlap exists among some of the categories used for different graphs.

> *Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

Categories used in the graphs include:

1. Fisheries Categories – These are combinations of species of similar ecological types, specifically pelagic, bottomfish, reef fish, and "other." "Other" includes groups that generally traverse these categories, such as certain sharks and jacks, or are not typically included in these groups, such as mullet and milkfish.

2. Pelagic Management Unit Species (PMUS) – The Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to place tunas under U.S. jurisdiction for management. The Fishery Management Plan for Pacific Pelagic Species was amended to reflect this change. However, this report series will continue to treat tunas as a separate category, and the PMUS category in this document includes only billfishes, wahoo, mahimahi, and oceanic sharks.

3. Bottom Fish Management Unit Species (BMUS) – Defined as the species of initial importance in the Fishery Management Plan for bottomfish and seamount fisheries, including the major deepwater snapper, grouper, emperor, and certain jacks.

4. Tunas – All the tuna species excluding wahoo. Historically this had been predominantly skipjack and yellowfin tunas in all areas, but with the growth of longline fisheries in Hawaii and American Samoa, bigeye and albacore tunas have become much more important or even predominant.

5. Other Tunas – The definition varies among the islands depending on the importance of each tuna species in the total landings. For Guam and the CNMI, it remains the same and includes all tunas as defined above except skipjack and yellowfin tunas. In Hawaii and Samoa, it also excludes bigeye and albacore tuna, and it includes only tuna with relatively minor landings.

6. Billfish – Combination of all marlin, sailfish, spearfish, and swordfish species.

## GRAPHICS

Four types of graphs are provided with each island's data. Type I graphs present summary charts of the major species and species groups for the year covered. Type II graphs are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined. Type III graphs are time series plots of annual summary statistics to help visualize the variability among years. Type IV graphs are plots of monthly landings of some of the major commercially important species and document monthly fluctuations in landings of these species over the entire time series.

To access the most up-to-date data and charts, please visit the WPacFIN Website at <http://www.pifsc.noaa.gov/wpacfin>.

# AMERICAN SAMOA 2005 FISHERY STATISTICS

Compiled by

American Samoa

Department of Marine and Wildlife Resources

and the

Western Pacific Fishery Information Network

July 2007

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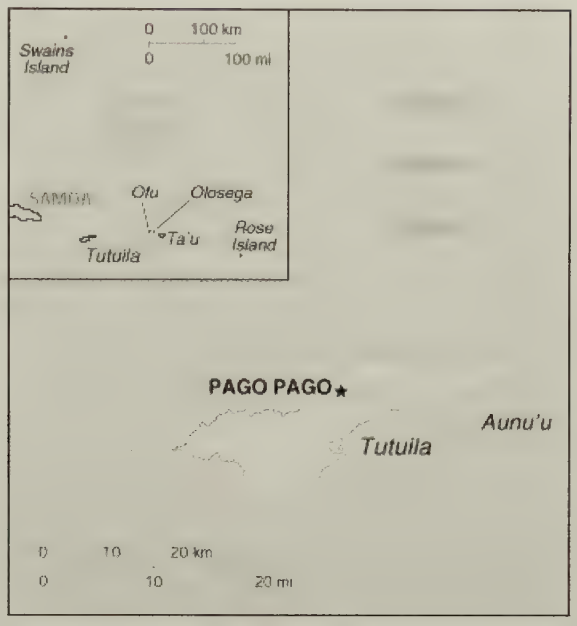
# AMERICAN SAMOA 2005 FISHERY STATISTICS

## INTRODUCTION

*Location*: 14°S latitude, 170°W longitude
*Islands*: Tutuila, Aunu`u, the Manu`a Islands (Ofu, Olesaga, Ta`u), Rose Atoll (uninhabited), and Swain's Island (sparsely populated)
*Population*: about 57,700; 80% on Tutuila; (*The World Factbook*, 2007)
*Economy*: tuna industry




**American Samoa Source:**
**<http://www.cia.gov/cia/publications/factbook/aq.html>;**
*The World Factbook*

The American Samoa Department of Marine and Wildlife Resources (DMWR; formerly the Office of Marine Resources) is located near Pago Pago on Tutuila and has been collecting commercial fisheries data from the Tutuila fleet since the early 1970s. In 1983 it extended its coverage to the Manu`a Islands, and in 1985 DMWR modified its data collection programs to include recreational and subsistence fisheries data.

American Samoa's domestic fisheries have typically been small-boat, 1-day fisheries using primarily 28 to 32 foot long, outboard-engine-powered catamarans called *alias* (pronounced *ah-lee-ahs*). Traditionally, trolling and bottomfishing were the major methods of fishing, and spearfishing, netting, and vertical longlining were done occasionally. Beginning in about mid-1995 some of the traditional alias began converting to horizontal longlining. During 1996 horizontal longlining became the largest fishery in American Samoa based on total landed weight of the catch, even though only about one-third of the fleet had converted to this method. Over the next few years the fleet grew rapidly with the addition of new alias up to about 38 feet in length and, more significantly, with the addition of other larger mono-hull vessels that fished much longer trips. The primary target species is albacore tuna, but the fishery has also resulted in significant increases in landings of yellowfin tuna, bigeye tuna, wahoo, blue marlin, mahimahi, and some other incidentally caught species.

During 2005, the various fishery monitoring programs in American Samoa identified 54 active vessels: 51 home ported on Tutuila and 3 in the Manu'a islands. Many of these vessels participated in more than one fishery, and 41 of the Tutuila boats (including 27 vessels which were over 50 feet in length) did at least some longlining. Of the 54 total boats, 13 participated in the troll and bottomfish fisheries, and 4 were used in other forms of fishing activities. On average, the alia fleet on Tutuila consisted of 3-man crews, fished 11 hours, and caught about 173 pounds of fish; the Manu'a-based fleet typically had 2-man crews, fished

about 5 hours and landed 81 pounds of fish. Essentially all of the longlining was based out of Tutuila, where the majority of the catch was offloaded to the canneries.

## SPECIAL NOTE ON DATA REVISIONS

Significant changes in the fisheries occurred in the mid-1990s with the development of the longline fishery and a nighttime, boat-based scuba spearfishing fishery. Because of the nature of these fisheries, biases began creeping into the effort-counting and interviewing processes of the DMWR surveys. By 1997 WPacFIN staff discovered the problems, and modifications to survey techniques were implemented by DMWR staff. It became clear by early 1998 that the algorithms used to expand the survey data and estimate for the total fishery also needed to be changed. The new data processing system that better handles the more complex nature of American Samoa's current fisheries as detailed below was completed and used to reprocess the historical time series. This volume includes the results of this new improved algorithm, but additional data quality control procedures and algorithm enhancements are still being made that may cause small changes in subsequent reports.

## DATA COLLECTING SYSTEM

The data collecting systems used by DMWR to monitor the changing fisheries of American Samoa have evolved considerably over the past twenty years. One common factor of all systems has been that they have relied heavily on personal contacts with the fishers and on a significant amount of dockside monitoring and interviewing.

The major systems in place today include: (1) boat-based, access-point creel surveys on Tutuila and the Manu`a Islands (formerly referenced as Offshore Creel Survey System), which are the mainstay of the monitoring program; (2) a mandatory purchase receipt "trip ticket" system for fish businesses on Tutuila (Commercial Purchase System); (3) a vessel history and tracking system for all American Samoa vessels (Vessel Classification System); (4) a Daily Effort Census System for detailed tracking of the longline fishery; (5) a mandatory federal Longline Logbook System; (6) a Cannery Landings System to document all landings at the two canneries made by domestic and foreign vessels; and (7) a size frequency sampling program at the canneries. Data from all these major systems are used to develop the best available data for the complex and ever changing fisheries of American Samoa. More details of the first five data collection systems follow.

**Commercial Catch Monitoring System**. From 1982 to 1985, DMWR obtained catch statistics by interviewing commercial fishers at the end of their trips and kept records of as much commercial fishing activity as possible. This data collection method was accurate for trips where interviews were conducted. However, it was very labor intensive, did not cover all trips, and did not include the small but growing recreational and subsistence fisheries.

**Vessel Classification System**. Beginning in the early 1980s, a vessel classification system was established to collect information on all vessels participating in any domestic fisheries. This system provides the following information on American Samoa vessels:

- Boat Name
- Registration Number
- Propulsion
- Length
- Beam
- Number of Engines
- Type of Use
- Trailered
- Number of Crew
- Depth
- Engine Type
- Fuel Type
- Material
- Horsepower
- Port
- Methods of Fishing
- Federal Permit

**Boat-based Creel Survey System**. In October 1985, a new creel survey sampling system was implemented on Tutuila to provide better coverage and statistics on all boat-based fisheries. This replaced the Commercial Catch Monitoring System. Soon afterwards, similar monitoring programs were established in the Manu`a Islands, where the fishing fleets are centrally located and small enough for statistics to be collected for nearly every trip. The surveyors in the Manu`a Islands send their monitoring forms to DMWR in Tutuila for processing. The Manu`a statistics are entered and compiled on a monthly basis and are adjusted by an estimated percent coverage factor that is usually 100%.

The details of the Tutuila boat-based fishery sampling program have changed over the years to accommodate changes in the fisheries; but it is still a systematic, random sampling program that stratifies sampling by type of day (either weekday or weekend/holiday) and by fishing method. For logistical and cultural reasons, Sundays are no longer sampled, as effort is extremely low and not similar to other weekend/holiday-type days.

DMWR staff normally sample 2 weekdays and 1 weekend/holiday per week. During survey days, counts of total participation are collected, and as many returning vessels as possible are interviewed for catch, effort, and biological samples. Tutuila is divided into six sample areas, five of which are sampled. It is assumed that the non-sampled area is similar to the sampled areas in fishing activity and success rate. Furthermore, it is assumed that the fishers interviewed are representative of the entire fishing population and that they give accurate information.

Unless contrary information is available from dockside questioning of knowledgeable persons, a boat is assumed to be "out fishing" if its trailer is at a boat ramp or the boat is missing from its normal berthing area during the 18-hour survey day. The following participation information is recorded for all boats determined to be "out fishing." It is expanded to estimate the total number of fishing trips in Tutuila:

- Sample Date
- Boat Name
- 3 Observation Times
- Type of Day
- Fishing Method
- Sample Area

The remaining data items listed below are collected on each boat for which an interview is successfully completed.

- Interview Time *
- Area Fished
- Home Island
- Total Hours Fished (trip length) *
- Number of Fishermen
- Number of Gear Used
- Total Trip Weight in Pounds *
- Species Caught *
- Number of Pieces for Each Species
- Disposition of Species*
- Weight in Pounds for Each Species *
- Condition of Species if Not Whole
- Length of Fish (converted to weight)
- Price per Pound for Each Species

It is not always possible to obtain information on all the items listed. However, the ones marked with an asterisk ( * ) are considered essential for data expansion purposes. Also, identification and weight of each species are often not obtainable; in this case a code for species groupings (e.g., miscellaneous bottom fish) is used. The interview data is later expanded to estimate the total catch per fishing trips and other CPUE measures in Tutuila. The catch per trip estimate is multiplied by the number of trips estimate for each strata to get an estimate of the total catch for Tutuila.

**Commercial Purchase System**. For several decades the two canneries provided monthly summary statistics about their purchases of fish from all vessels, foreign and domestic. Then in September 1990, a Commercial Purchase (receipt book) System was instituted in which all other businesses in Samoa that buy fish directly from fishers were required by local law to submit a copy of their purchase receipts to DMWR. Receipt books are issued by DMWR to all fish markets, stores, hotels, and restaurants that resell fish, either whole of prepared. The following information is collected via these receipts.

- Invoice Date
- Invoice Number
- Buyer's Name
- Boat Name, Owner
- Area Fished
- Fishing Method
- Species Bought
- Number of Pieces for Each Species
- Weight in Pounds for Each Species
- Price per Pound for Each Species

**Federal Longline Logbook System and Daily Effort Census**. In January 1996, in response to the developing longline fishery, a federal longline logbook system was implemented by NMFS. All longline fishers are required to obtain a federal permit and to submit logs

containing detailed data on each of their sets and the resulting catch. From 1996 to 1999, the logbooks submitted by the local longliners were edited by the NMFS fisheries monitoring agent in Samoa for any missing data and were then sent to PIFSC (formerly the Honolulu Laboratory) for further editing and data processing.

In July 1999, to improve monitoring of the fast-growing longline fishery, DMWR implemented a Daily Effort Census (DEC) for all federally permitted longline vessels. Six days a week, DMWR staffs make two visits a day to ports where longline vessels move. The staff document whether each vessel on the list is "in port" or "out fishing." The DEC data are used to track the activity of each vessel and to help ensure all fishing log sheets are submitted by the fishers.

To further improve the quality and timeliness of the data, beginning in January 2000 logbook data collecting, editing, and processing has been done by DMWR in Samoa and downloaded to NMFS periodically.

The following information is recorded for each set these longline fishers make:

- Set Date
- Vessel
- Date of Departure
- Port of Departure
- Date of Arrival
- Port of Arrival
- Observer on Board
- Target Species
- Bait Used
- Mainline Length
- No. of Hooks
- No. of Hooks/Float
- No. of Lightsticks Used
- Bird Catch Mitigation Measures
- Wind Detection
- Wave Height
- Sea Surface Temperature
- Wind Speed
- Begin Set Time
- Begin Set Latitude and Longitude
- End Set Time
- End Set Latitude and Longitude
- Haul Date
- Begin Haul Date
- Begin Haul Latitude and Longitude
- End Haul Time
- End Haul Latitude and Longitude
- No. of Pelagic Species Kept
- No. of Pelagic Species Released
- No. of Sharks Finned
- No. of Sharks Kept
- No. of Sharks Released
- No. of Protected Species Released Alive
- No. of Protected Species Released Injured
- No. of Protected Species Released Dead

Logbook data are also compared with cannery unloading data for Samoa-based boats on a monthly basis to identify boats that unload at the canneries but did not turn in any longline logs or turn in just a part of the logs that they are required to.

The longline logbooks provide no information on the pounds caught or the disposition of fish caught by large longliners, which are not covered by the Boat-Based Creel Survey.

Beginning in April 2001, length data from South Pacific Regional Longline Port Sampling Forms were collected for Samoa-based longliners and converted to pounds to provide better estimates of the pounds per fish of fish caught by the large longliners. Disposition data were also entered in the comments section of these forms to provide sampled disposition data on the fish caught.

## DATA PROCESSING SYSTEM

As the data collecting systems used by DMWR to monitor the fisheries in American Samoa have changed over the years, so have the data processing systems. Numerous versions of database and utility software and microcomputer systems have been used over the years to meet the growing demand for processing the collected data. Generally speaking, these changes, with their significant emphasis on improving data quality and their cross validation among systems, have made the data processing systems more robust, complex, and complete.

Several important principles have remained constant over time: (1) keep data processing close to the source of data collecting; (2) provide all of the needed software tools to ensure the quality of data; (3) make the systems user friendly and functional for the local staff; and (4) maintain as many standards as possible throughout the time series of data collected.

Typically, when upgrades (such as changes in expansion and reporting algorithms for the creel survey data and commercial landings data) have been made to data processing systems, the entire time series of data would be reprocessed using the same algorithms so that trends in the fisheries would remain as intact as possible. The annual and monthly estimated commercial landings data and the corresponding time series figures included in this report were produced with the versions of data processing systems in use in May 2001. To help the reader understand the origin of the data included in this report, a general description of these processes follows. Please note that it does not include the details on many minor changes that have occurred throughout the evolutionary history of these systems.

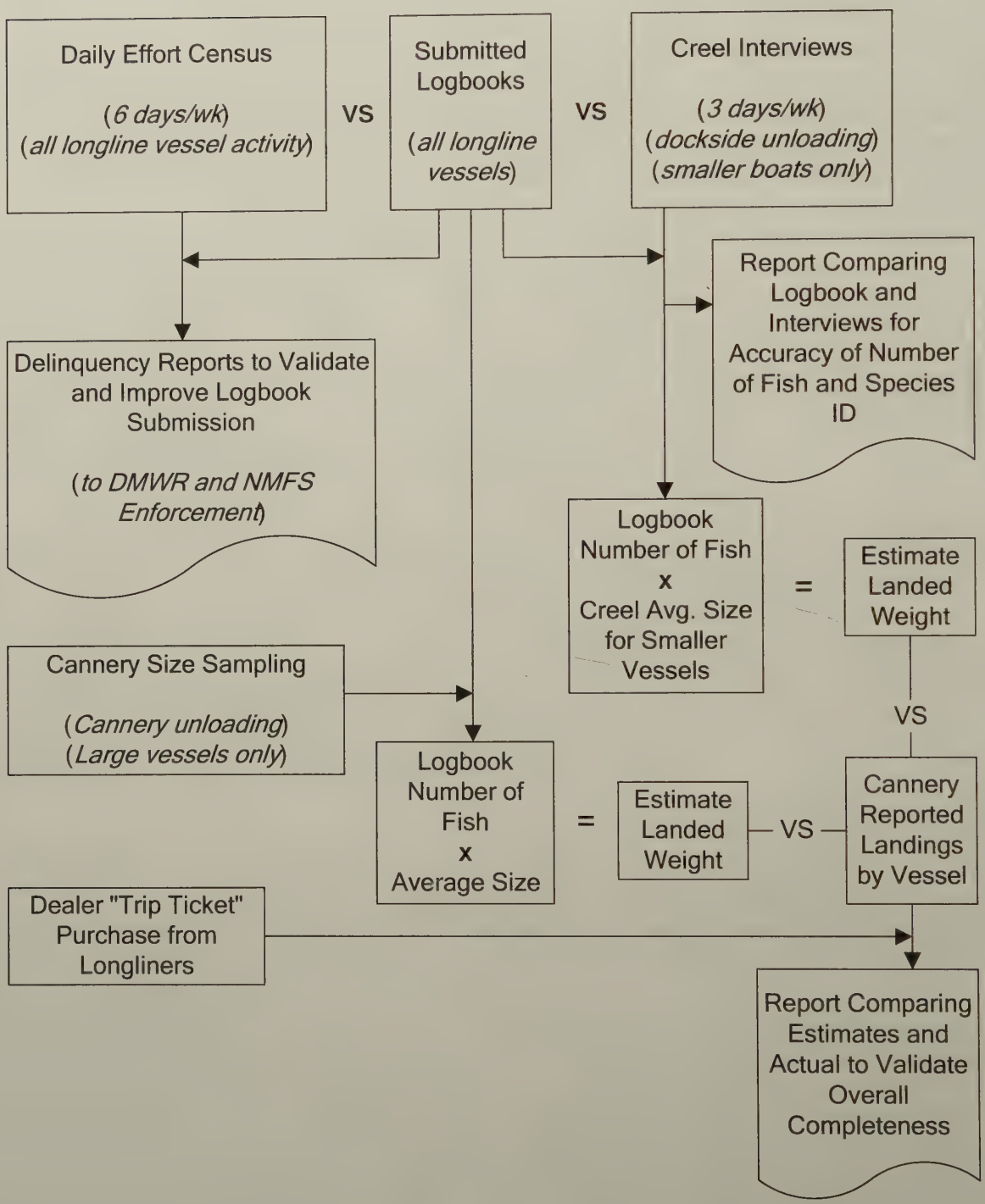
The data from 1982 to 1985 have been imported directly from the original Commercial Catch Monitoring System used before the implementation of the boat-based creel survey. Since 1986, the boat-based creel survey data expansion system has been the central system for estimating total commercial landings in American Samoa. In short, the survey data expansion process involves multiplying the average daily participation by the average catch per trip for each stratum. For the years 1986 to 1990, commercial sales portions of the expanded creel survey data from Tutuila and the Manu`a Islands were combined to produce estimated total commercial landings. Since 1990, with the implementation of the mandatory fish dealer receipt book system on Tutuila, further adjustments have been made to these combined creel data by using receipt book data. These adjustments made significant improvements in overall totals as they helped adjust for sales not monitored through the boat-based survey (e.g., shoreline and strictly nighttime commercial fishing). Species totals modified with these types of adjustments are flagged in reports with an asterisk. Finally, in the late 1990s when larger longline vessels began landing their catches directly at the canneries and thus out of the monitoring capabilities of the standard creel surveys, the longline logbook system and cannery size frequency

sampling data entered the algorithm to fill the gap for this portion of the fishery. This data added the landings of these vessels to create a more complete picture of the estimated total commercial landings for the Territory.

One of the most significant recent improvements made in the data processing systems for DMWR has been in the area of cross-system data validation and quality control. By collecting similar data from several sources using different monitoring and reporting tools, the quality of reported data can be cross-referenced between systems to provide insight into the validity and completeness of each data set. The following schematic shows some cross-system data validation relationships and features that are used in the most current version of the integrated DMWR fisheries monitoring programs (see next page):

# Data Quality and Cross Validation

## American Samoa Longline Example



## DATA REPORTING SYSTEM

After all editing, quality control, and data interpretation activities are completed, monthly and annual commercial landings data tables by species are generated. Each of the commercial landings data tables contains the common name, weight sold in pounds, value in dollars, the average price per pound of each species or species group, and whether the data was modified by Commercial Purchase System data (denoted by asterisks). The monthly data tables are based on monthly expansions of the Tutuila Boat-Based Creel Survey Data with enhancements by monthly Longline Logbook, Commercial Purchase System, and Manu`a data as explained previously. Annual data tables are based on combined annual expansions of the creel data for the entire calendar year with similar annual enhancements from Longline Logbook, Commercial Purchase System, and Manu`a data. Since the monthly and annual data tables are based on separate monthly and annual expansion of the creel data, the annual data tables are not the exact sum of the 12 monthly data tables, but they fall within the standard error. These data tables are listed as Tables A-1 to A-13 in this report.

The charts that make up the rest of the report are for groups of species as well as for some of the dominant individual species. Some of the charts in this volume are new or modified from earlier volumes. The top ten commercial species for the year are emphasized, and they can change from year to year. The species in the species groups used in the charts of this report are defined below.

To access the most up-to-date data and charts, please visit the WPacFIN Website at <http://www.pifsc.noaa.gov/wpacfin>.

*Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

### I. Pelagic Management Unit Species (PMUS)

Although the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the PMUS (PPMUS), this report series will continue to treat tunas as a separate category from the PPMUS. The PMUS category includes:

Sharks (misc)
Blacktip reef shark
Blue shark
Shortfin mako shark
Nurse shark
Thresher shark
White tip oceanic shark
Mahimahi
Blue marlin
Black marlin
Striped marlin
Sailfish
Spearfish
Swordfish
Wahoo
Pomfret
Moonfish

II. Bottomfish Management Unit Species (BMUS)

Black jack
Amberjack
Giant trevally
Yelloweye opakapaka
Blacktip grouper
Lunartail grouper
Blue lined snapper
Gray jobfish
Pink snapper (opakapaka)
Flower snapper (gindai)
Yellowtail snapper
Smalltooth jobfish (lehi)
Longtail snapper (onaga)
Squirrel snapper (ehu)
Ambon emperor
Redgill emperor

III. Billfish

Swordfish
Blue marlin
Black marlin
Striped marlin
Sailfish
Spearfish

IV. Tunas

Tunas (misc)
Skipjack tuna
Dogtooth tuna
Albacore
Bluefin tuna
Yellowfin tuna
Bigeye tuna
Kawakawa

V. Other Tuna

Tunas (misc)
Dogtooth tuna
Bluefin tuna
Kawakawa

VI. Fisheries Categories

A. Pelagics

Albacore
All sharks
Barracudas (misc)
Bigeye barracuda
Bigeye thresher shark
Bigeye tuna
Billfish (misc)
Black marlin
Blacktip reef shark
Blue marlin
Blue shark
Bluefin tuna
Dogtooth tuna
Great barracuda
Hammerhead shark
Kawakawa
Longfin mako shark
Mackerel
Mahimahi
Moonfish
Nurse shark
Oilfish
Pelagic fish (misc)
Pelagic thresher shark
Pomfret
Rainbow runner
Sailfish
Sharks (misc)
Shortfin mako shark
Silky shark
Skipjack tuna
Small barracuda
Snake mackerel
Spearfish
Striped marlin
Swordfish
Thresher shark
Tiger shark
Tunas (misc)
Wahoo
White tip oceanic shark
Yellowfin tuna

B. Bottom Fish

Amberjack
Ambon emperor
Bigeye emperor
Bigeye scad
Bigeye trevally
Black jack
Black snapper
Black triggerfish
Blacktip grouper
Blood snapper
Blue kingfish trevally
Blue lined gindai
Blue lined snapper
Blue triggerfish
Bluefin trevally
Blueline bream
Bottomfish (misc)
Bridled triggerfish
Brown jobfish
Deep water snappers
Emperors (misc)
Flagtail grouper
Flower snapper (gindai)
Giant trevally
Goldenline bream
Goldspot trevally
Gray jobfish
Groupers (misc)
Jacks (misc)
Kusakar's snapper
Longnose emperor
Longtail snapper (onaga)
Lunartail grouper
Mackerel scad (opelu)
Multidens snapper
Netfin grouper
Onespot snapper
Orangespot emperor
Orangestripe triggerfish
Paddletail snapper
Peacock grouper
Picassofish
Pink snapper (opakapaka)
Pinktail triggerfish
Pristipomoides/Etelis
Redgill emperor
Rufous snapper
Smalltooth grouper
Smalltooth jobfish (lehi)
Spotted grouper
Squirrel snapper (ehu)
Stone's snapper
Striped grouper
Tomato grouper
Twinspot/red snapper
Twospot bristletooth
Whitemouth trevally
Yellow margined snapper
Yellow-eyed bristletooth
Yelloweye opakapaka
Yelloweye snapper
Yellowspot grouper
Yellowtail snapper

C. Reef Fish

Arenatus wrasse
Bandcheck wrasse
Barred flagtail
Barred thicklip
Bigeye squirrelfish
Bigeyes
Bigscale soldierfish
Blackeye thicklip
Blue-banded surgeonfish
Brown surgeonfish
Butterflyfishes (misc)
Cardinalfish
Checkerboard wrasse
Christmas wrasse
Cigar wrasse
Convict tang
Flagtails
Floral wrasse
Flounders
Harlequin tuskfish
Inshore groupers
Inshore snappers
Mullets
Napoleon wrasse
Naso tang
Orange goatfish
Orangespine unicornfish
Parrotfishes (misc)
Porcupinefish
Rabbitfish
Red snapper
Reef fish (misc)
Rockmover wrasse
Rudderfish
Rudderfish (biggibus)
Rudderfish (cinerascens)
Saber squirrelfish
Sergeant major
Squirrelfish
Striped bristletooth
Surgeonfishes/tangs
Sweepers
Sweetlips
Terapon perch
Tilefishes
Triggerfish
Triple tail wrasse
Two spotted hawkfish
Unicornfishes (misc)
Weedy surge wrasse
Whitepatch wrasse
Whitespotted surgeonfish
Wrasses (misc)
Yellow goatfishes
Yellowfin surgeonfish

D. Other

Anchovies
Angler flatfish
Banded sergeant
Batfishes
Butterflyfish (auriga)
Butterflyfish (melanotic)
Catfish
Conger eels
Coral crouchers
Crabs
Dottybacks
Dragon eel
Eagle ray
Eels
Emperor angelfish
False mullet
Fish (misc)
Flame hawkfish
Flashlightfishes
Flyingfish
Forktail rabbitfish
Fringelip mullet
Frogfishes
Giant clam
Giant moray eel
Green snails
Halfbeaks
Invertebrates (misc)
Kona crab
Leatherback
Longnose parrotfish
Lowfin drummer
Mangrove clam
Mangrove crab
Milkfish
Monogram monocle bream
Moray eels
Needlefish
Octopus
Octopus (cyanea)
Octopus (ornatus)
Pacific sailfin tang
Prettyfins
Racoon butterflyfish
Rays
Red algae
Remoras
Saddleback butterflyfish
Salmon
Sand and coral rubble
Sea shells
Sea urchins (misc)
Seahorses
Seaweeds
Shrimp
Slipper lobster
Spiny lobster
Spotted moray eels
Squid
Sunfish
Sweetlip emperor
Threadfin
Tilapia
Turban snail
Undulated moray eel
Western drummer
Yellowmargin moray eel

## INTERPRETATION OF STATISTICS

The user is reminded to pay heed to the precautions and assumptions identified earlier in this document when making interpretations of or inferences from data reported in the tables and graphs. Remember also that the commercial landings summaries are not based on a census of all the fishing activities, but on samples of those activities and on integration of data from four separate data systems. One of the major factors in expanding the creel survey data into monthly and annual estimates is the use of proportionality constants to adjust for percent coverage of the surveys. The flexibility of the survey design allows for refinement of these constants as additional information is gained on the fishing activities. If the constants are improved upon, the basic survey data can be expanded again to create better overall estimates. However, the variability and species composition would not be expected to change since these statistics are based on the actual survey information collected from the fishers. The estimates of total landings are considered to be conservative because the catch from the subsistence inshore fisheries are currently not included in this document.

## Table A-1
## American Samoa Annual 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Bigeye scad | 363 | $619 | $1.70 | * |
| Mackerel | 55 | $107 | $1.92 | * |
| Trevally (misc) | 20 | $22 | $1.10 | * |
| Black jack | 174 | $484 | $2.78 | |
| Bigeye trevally | 44 | $90 | $2.02 | |
| Whitemouth trevally | 2 | $4 | $2.41 | |
| Barracudas (misc) | 746 | $1,408 | $1.89 | |
| Bigeye barracuda | 0 | $1 | $1.80 | |
| Mullets | 277 | $600 | $2.16 | * |
| Sharks (misc) | 14 | $7 | $0.50 | |
| Milkfish | 55 | $76 | $1.38 | * |
| Groupers (misc) | 218 | $441 | $2.02 | |
| Peacock grouper | 21 | $37 | $1.73 | |
| Flagtail grouper | 14 | $28 | $2.00 | |
| Tomato grouper | 111 | $299 | $2.68 | |
| White-edged lyretail | 22 | $40 | $1.86 | |
| Blacktip grouper | 20 | $60 | $2.99 | |
| Spotted grouper | 37 | $94 | $2.58 | |
| Lunartail grouper | 509 | $1,059 | $2.08 | |
| Blue lined snapper | 383 | $836 | $2.18 | * |
| Rufous snapper | 177 | $468 | $2.65 | |
| Yellow margined snapper | 34 | $68 | $2.00 | |
| Onespot snapper | 21 | $40 | $1.94 | |
| Twinspot/red snapper | 1 | $3 | $2.00 | |
| Paddletail snapper | 664 | $1,294 | $1.95 | |
| Gray jobfish | 451 | $929 | $2.06 | |
| Pristipomoides/Etelis | 0 | $1 | $3.00 | |
| Yelloweye snapper | 39 | $118 | $3.00 | |
| Pink snapper (opakapaka) | 1,004 | $2,450 | $2.44 | * |
| Blue lined gindai | 34 | $103 | $3.00 | |
| Flower snapper (gindai) | 40 | $121 | $3.00 | |
| Yellowtail snapper | 220 | $429 | $1.95 | * |
| Smalltooth jobfish (lehi) | 530 | $1,206 | $2.27 | |
| Longtail snapper (onaga) | 710 | $1,911 | $2.69 | * |
| Squirrel snapper (ehu) | 625 | $1,378 | $2.20 | * |
| Black snapper | 20 | $42 | $2.10 | * |
| Stone's snapper | 146 | $437 | $3.00 | |
| Kusakar's snapper | 9 | $19 | $2.13 | |
| Bigeye emperor | 39 | $79 | $2.05 | |
| Emperors (misc) | 1 | $3 | $2.30 | |
| Longnose emperor | 111 | $209 | $1.87 | |
| Ambon emperor | 181 | $498 | $2.75 | |
| Blueline bream | 2 | $6 | $2.47 | |
| Redgill emperor | 586 | $1,469 | $2.51 | |
| Oilfish | 3 | $3 | $1.00 | |
| Pomfret | 168 | $337 | $2.00 | |
| Flounders | 64 | $159 | $2.48 | * |
| Surgeonfishes/tangs | 7,101 | $14,189 | $2.00 | * |
| Unicornfishes (misc) | 1,518 | $3,133 | $2.06 | * |
| Squirrelfish | 784 | $1,616 | $2.06 | * |
| Saber squirrelfish | 82 | $214 | $2.61 | |

**Table A-1 (Cont.)**
**American Samoa Annual 2005 Estimated Commercial Landings**

| Species | Pounds | Value | $/Lb | |
|---|---|---|---|---|
| Bigscale soldierfish | 7 | $18 | $2.60 | |
| Yellowstriped squirrelfish | 7 | $14 | $2.00 | |
| Bigeye squirrelfish | 10 | $23 | $2.26 | |
| Parrotfishes (misc) | 7,144 | $15,655 | $2.19 | * |
| Terapon perch | 1 | $2 | $2.25 | |
| Sweetlips | 2 | $71 | $43.4 | |
| Christmas wrasse | 1 | $1 | $2.00 | |
| Sweepers | 13 | $25 | $2.00 | |
| Inshore groupers | 679 | $1,332 | $1.96 | * |
| Triggerfish | 10 | $19 | $2.00 | |
| Inshore snappers | 12 | $30 | $2.46 | |
| Red snapper | 257 | $513 | $2.00 | |
| Mahimahi | 35,649 | $45,366 | $1.27 | |
| Swordfish | 7,966 | $18,617 | $2.34 | * |
| Blue marlin | 2,972 | $3,097 | $1.04 | * |
| Black marlin | 955 | $955 | $1.00 | |
| Sailfish | 1,237 | $1,125 | $0.91 | |
| Rainbow runner | 81 | $154 | $1.91 | |
| Wahoo | 458,678 | $423,337 | $0.92 | |
| Skipjack tuna | 316,917 | $193,777 | $0.61 | |
| Bluefin tuna | 390 | $975 | $2.50 | * |
| Dogtooth tuna | 103 | $204 | $1.98 | |
| Albacore | 6,434,965 | $6,438,325 | $1.00 | |
| Yellowfin tuna | 1,123,207 | $1,026,364 | $0.91 | |
| Bigeye tuna | 285,454 | $314,930 | $1.10 | |
| Moonfish | 776 | $663 | $0.85 | |
| Spiny lobster | 3,335 | $14,313 | $4.29 | * |
| Octopus | 662 | $1,797 | $2.71 | * |
| Shrimp | 180 | $565 | $3.14 | * |
| Tilapia | 3,359 | $3,984 | $1.19 | * |
| Salmon | 32 | $64 | $2.00 | * |
| Rudderfish | 4 | $8 | $2.18 | |
| Angler flatfish | 132 | $266 | $2.02 | * |
| Stareye parrotfish | 56 | $112 | $2.00 | |
| Yellowband parrotfish | 3 | $6 | $2.00 | |
| Pa'a crab | 56 | $356 | $6.36 | * |
| TOTAL | 8,703,761 | $8,546,301 | $0.98 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-2**
**American Samoa January 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Fish (misc) | 25 | $47 | $1.85 | |
| Black jack | 95 | $215 | $2.27 | |
| Blue kingfish trevally | 27 | $51 | $1.85 | |
| Barracudas (misc) | 172 | $333 | $1.93 | |
| Bigeye barracuda | 1 | $1 | $1.80 | |
| Groupers (misc) | 53 | $94 | $1.76 | |
| White-edged lyretail | 37 | $69 | $1.85 | |
| Spotted grouper | 69 | $136 | $1.96 | |
| Blue lined snapper | 42 | $85 | $2.00 | |
| Rufous snapper | 24 | $49 | $2.00 | |
| Paddletail snapper | 126 | $244 | $1.94 | |
| Gray jobfish | 207 | $341 | $1.65 | |
| Pristipomoides/Etelis | 152 | $457 | $3.00 | |
| Yelloweye snapper | 19 | $36 | $1.84 | |
| Yellowtail snapper | 23 | $47 | $2.00 | |
| Smalltooth jobfish (lehi) | 109 | $197 | $1.80 | |
| Longtail snapper (onaga) | 333 | $832 | $2.50 | |
| Squirrel snapper (ehu) | 94 | $306 | $3.25 | * |
| Longnose emperor | 91 | $171 | $1.87 | |
| Ambon emperor | 77 | $145 | $1.88 | |
| Inshore snappers | 2 | $5 | $2.00 | |
| Red snapper | 5 | $9 | $1.70 | |
| Mahimahi | 3,655 | $5,832 | $1.60 | |
| Swordfish | 273 | $726 | $2.66 | * |
| Sailfish | 70 | $140 | $2.00 | * |
| Wahoo | 39,745 | $37,171 | $0.94 | |
| Skipjack tuna | 16,855 | $10,408 | $0.62 | |
| Dogtooth tuna | 58 | $102 | $1.75 | |
| Albacore | 243,571 | $243,576 | $1.00 | |
| Yellowfin tuna | 22,910 | $24,201 | $1.06 | |
| Bigeye tuna | 7,986 | $8,785 | $1.10 | |
| TOTAL | 336,910 | $334,810 | $0.99 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-3**
**American Samoa February 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Barracudas (misc) | 186 | $360 | $1.94 | |
| Peacock grouper | 1 | $2 | $1.74 | |
| White-edged lyretail | 19 | $35 | $1.85 | |
| Blue lined snapper | 5 | $9 | $2.00 | |
| Yellow margined snapper | 3 | $6 | $2.00 | |
| Paddletail snapper | 37 | $69 | $1.88 | |
| Gray jobfish | 12 | $23 | $1.94 | |
| Pink snapper (opakapaka) | 71 | $117 | $1.65 | * |
| Smalltooth jobfish (lehi) | 30 | $60 | $2.00 | |
| Longtail snapper (onaga) | 203 | $570 | $2.81 | * |
| Squirrel snapper (ehu) | 23 | $50 | $2.20 | |
| Bigeye emperor | 3 | $6 | $2.05 | |
| Longnose emperor | 9 | $17 | $1.87 | |
| Redgill emperor | 7 | $14 | $2.00 | |
| Pomfret | 13 | $26 | $2.00 | |
| Surgeonfishes/tangs | 38 | $63 | $1.65 | * |
| Unicornfishes (misc) | 28 | $46 | $1.65 | * |
| Squirrelfish | 8 | $13 | $1.65 | * |
| Parrotfishes (misc) | 62 | $102 | $1.65 | * |
| Inshore groupers | 37 | $61 | $1.65 | * |
| Red snapper | 21 | $41 | $2.00 | |
| Mahimahi | 1,524 | $2,049 | $1.34 | |
| Swordfish | 1,013 | $2,757 | $2.72 | * |
| Blue marlin | 1,018 | $916 | $0.90 | * |
| Black marlin | 85 | $85 | $1.00 | |
| Sailfish | 283 | $255 | $0.90 | * |
| Wahoo | 17,014 | $16,279 | $0.96 | |
| Skipjack tuna | 6,102 | $3,829 | $0.63 | |
| Albacore | 87,415 | $88,337 | $1.01 | |
| Yellowfin tuna | 9,515 | $11,528 | $1.21 | |
| Bigeye tuna | 2,723 | $2,996 | $1.10 | |
| Moonfish | 402 | $503 | $1.25 | |
| TOTAL | 127,909 | $131,223 | $1.03 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-4**
**American Samoa March 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 4 | $12 | $3.00 | |
| Bigeye trevally | 8 | $22 | $2.75 | |
| Barracudas (misc) | 353 | $706 | $2.00 | |
| Groupers (misc) | 9 | $20 | $2.25 | |
| Flagtail grouper | 14 | $28 | $2.00 | |
| White-edged lyretail | 33 | $61 | $1.85 | |
| Lunartail grouper | 2 | $6 | $3.00 | |
| Blue lined snapper | 125 | $250 | $2.00 | * |
| Rufous snapper | 3 | $9 | $3.00 | |
| Paddletail snapper | 10 | $20 | $2.00 | * |
| Gray jobfish | 10 | $20 | $2.00 | * |
| Yelloweye snapper | 3 | $9 | $3.00 | |
| Pink snapper (opakapaka) | 2 | $6 | $3.00 | |
| Flower snapper (gindai) | 2 | $6 | $3.00 | |
| Smalltooth jobfish (lehi) | 7 | $21 | $3.00 | |
| Longtail snapper (onaga) | 6 | $18 | $3.00 | |
| Squirrelfish | 27 | $60 | $2.24 | |
| Mahimahi | 832 | $1,627 | $1.95 | * |
| Swordfish | 355 | $1,065 | $3.00 | * |
| Rainbow runner | 18 | $34 | $1.91 | |
| Wahoo | 7,221 | $6,975 | $0.97 | |
| Skipjack tuna | 1,927 | $1,680 | $0.87 | |
| Albacore | 19,247 | $19,596 | $1.02 | |
| Yellowfin tuna | 7,472 | $9,665 | $1.29 | |
| Bigeye tuna | 2,387 | $2,625 | $1.10 | |
| Moonfish | 218 | $109 | $0.50 | |
| TOTAL | 40,294 | $44,651 | $1.11 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-5**

## American Samoa April 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 26 | $78 | $3.00 | |
| Barracudas (misc) | 30 | $60 | $2.00 | |
| Peacock grouper | 7 | $12 | $1.73 | |
| Tomato grouper | 17 | $51 | $3.00 | |
| Blacktip grouper | 6 | $19 | $3.00 | |
| Lunartail grouper | 15 | $44 | $3.00 | |
| Blue lined snapper | 35 | $70 | $2.00 | |
| Rufous snapper | 15 | $46 | $3.00 | |
| Yellow margined snapper | 21 | $41 | $2.00 | |
| Paddletail snapper | 294 | $570 | $1.94 | |
| Gray jobfish | 123 | $274 | $2.22 | |
| Yelloweye snapper | 18 | $54 | $3.00 | |
| Pink snapper (opakapaka) | 4 | $12 | $3.00 | |
| Blue lined gindai | 13 | $38 | $3.00 | |
| Flower snapper (gindai) | 14 | $41 | $3.00 | |
| Yellowtail snapper | 10 | $29 | $3.00 | |
| Smalltooth jobfish (lehi) | 286 | $633 | $2.21 | |
| Longtail snapper (onaga) | 53 | $158 | $3.00 | |
| Squirrel snapper (ehu) | 189 | $431 | $2.28 | |
| Stone's snapper | 48 | $143 | $3.00 | |
| Bigeye emperor | 23 | $48 | $2.05 | |
| Longnose emperor | 68 | $127 | $1.87 | |
| Ambon emperor | 7 | $20 | $3.00 | |
| Redgill emperor | 54 | $107 | $2.00 | |
| Pomfret | 97 | $194 | $2.00 | |
| Surgeonfishes/tangs | 130 | $215 | $1.65 | * |
| Squirrelfish | 35 | $74 | $2.13 | |
| Parrotfishes (misc) | 155 | $256 | $1.65 | * |
| Red snapper | 156 | $312 | $2.00 | |
| Mahimahi | 539 | $603 | $1.12 | |
| Swordfish | 405 | $1,030 | $2.54 | * |
| Wahoo | 4,391 | $4,069 | $0.93 | |
| Skipjack tuna | 6,736 | $5,501 | $0.82 | |
| Dogtooth tuna | 46 | $92 | $2.00 | |
| Albacore | 152,991 | $152,991 | $1.00 | |
| Yellowfin tuna | 15,950 | $15,482 | $0.97 | |
| Bigeye tuna | 13,280 | $14,608 | $1.10 | |
| Spiny lobster | 10 | $35 | $3.50 | * |
| TOTAL | 196,295 | $198,566 | $1.01 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-6**
**American Samoa May 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 51 | $153 | $3.00 | |
| Barracudas (misc) | 258 | $482 | $1.87 | |
| Peacock grouper | 2 | $3 | $1.73 | |
| Tomato grouper | 24 | $72 | $3.00 | |
| Blacktip grouper | 13 | $39 | $3.00 | |
| Lunartail grouper | 25 | $75 | $3.00 | |
| Blue lined snapper | 9 | $18 | $2.00 | |
| Rufous snapper | 4 | $12 | $3.00 | |
| Yellow margined snapper | 5 | $11 | $2.00 | |
| Paddletail snapper | 82 | $166 | $2.02 | |
| Gray jobfish | 38 | $88 | $2.34 | |
| Yelloweye snapper | 19 | $57 | $3.00 | |
| Pink snapper (opakapaka) | 6 | $18 | $3.00 | |
| Blue lined gindai | 22 | $66 | $3.00 | |
| Flower snapper (gindai) | 25 | $75 | $3.00 | |
| Yellowtail snapper | 19 | $57 | $3.00 | |
| Smalltooth jobfish (lehi) | 121 | $304 | $2.51 | |
| Longtail snapper (onaga) | 135 | $405 | $3.00 | |
| Squirrel snapper (ehu) | 233 | $664 | $2.85 | |
| Stone's snapper | 99 | $297 | $3.00 | |
| Kusakar's snapper | 9 | $19 | $2.13 | |
| Bigeye emperor | 6 | $13 | $2.05 | |
| Longnose emperor | 18 | $33 | $1.87 | |
| Ambon emperor | 12 | $36 | $3.00 | |
| Redgill emperor | 14 | $28 | $2.00 | |
| Pomfret | 25 | $50 | $2.00 | |
| Surgeonfishes/tangs | 86 | $173 | $2.00 | * |
| Unicornfishes (misc) | 49 | $98 | $2.00 | * |
| Squirrelfish | 31 | $62 | $2.00 | * |
| Parrotfishes (misc) | 214 | $503 | $2.36 | * |
| Inshore groupers | 32 | $64 | $2.00 | * |
| Red snapper | 41 | $81 | $2.00 | |
| Mahimahi | 4,549 | $6,509 | $1.43 | |
| Swordfish | 566 | $1,532 | $2.71 | * |
| Blue marlin | 132 | $132 | $1.00 | * |
| Black marlin | 1,195 | $1,195 | $1.00 | |
| Sailfish | 393 | $393 | $1.00 | * |
| Wahoo | 13,947 | $13,484 | $0.97 | |
| Skipjack tuna | 54,638 | $33,466 | $0.61 | |
| Dogtooth tuna | 38 | $57 | $1.50 | * |
| Albacore | 692,951 | $692,951 | $1.00 | |
| Yellowfin tuna | 113,144 | $105,913 | $0.94 | |
| Bigeye tuna | 28,387 | $31,487 | $1.11 | |
| Spiny lobster | 178 | $791 | $4.44 | * |
| Tilapia | 198 | $226 | $1.14 | * |
| TOTAL | 912,042 | $892,356 | $0.98 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-7**
**American Samoa June 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 46 | $119 | $2.60 | |
| Spotted grouper | 17 | $45 | $2.60 | |
| Lunartail grouper | 59 | $117 | $2.00 | |
| Blue lined snapper | 88 | $168 | $1.90 | |
| Rufous snapper | 76 | $198 | $2.60 | |
| Paddletail snapper | 181 | $357 | $1.97 | * |
| Gray jobfish | 118 | $231 | $1.95 | |
| Pink snapper (opakapaka) | 140 | $273 | $1.95 | * |
| Yellowtail snapper | 29 | $56 | $1.95 | |
| Smalltooth jobfish (lehi) | 15 | $39 | $2.60 | |
| Squirrel snapper (ehu) | 20 | $50 | $2.50 | * |
| Redgill emperor | 230 | $597 | $2.60 | |
| Surgeonfishes/tangs | 222 | $436 | $1.96 | * |
| Unicornfishes (misc) | 266 | $521 | $1.96 | * |
| Squirrelfish | 138 | $274 | $1.99 | * |
| Parrotfishes (misc) | 904 | $1,871 | $2.07 | * |
| Inshore groupers | 120 | $234 | $1.95 | * |
| Mahimahi | 3,389 | $3,814 | $1.13 | |
| Swordfish | 582 | $1,212 | $2.08 | * |
| Blue marlin | 238 | $287 | $1.20 | * |
| Rainbow runner | 3 | $6 | $1.91 | |
| Wahoo | 36,729 | $33,646 | $0.92 | |
| Skipjack tuna | 58,969 | $35,443 | $0.60 | |
| Dogtooth tuna | 35 | $61 | $1.75 | * |
| Albacore | 935,580 | $935,580 | $1.00 | |
| Yellowfin tuna | 176,744 | $160,369 | $0.91 | |
| Bigeye tuna | 25,493 | $28,308 | $1.11 | |
| Spiny lobster | 218 | $924 | $4.24 | * |
| Pa'a crab | 21 | $146 | $6.95 | * |
| TOTAL | 1,240,670 | $1,205,380 | $0.97 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-8**
**American Samoa July 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Bigeye scad | 121 | $241 | $2.00 | * |
| Black jack | 34 | $87 | $2.60 | |
| Barracudas (misc) | 19 | $33 | $1.75 | |
| Mullets | 22 | $38 | $1.72 | * |
| Spotted grouper | 13 | $33 | $2.60 | |
| Lunartail grouper | 43 | $86 | $2.00 | |
| Blue lined snapper | 65 | $123 | $1.90 | |
| Rufous snapper | 56 | $145 | $2.60 | |
| Paddletail snapper | 63 | $125 | $1.97 | |
| Gray jobfish | 87 | $169 | $1.95 | |
| Pink snapper (opakapaka) | 51 | $153 | $3.00 | * |
| Yellowtail snapper | 21 | $41 | $1.95 | |
| Smalltooth jobfish (lehi) | 11 | $29 | $2.60 | |
| Longtail snapper (onaga) | 45 | $90 | $2.00 | * |
| Squirrel snapper (ehu) | 41 | $82 | $2.00 | * |
| Redgill emperor | 169 | $438 | $2.60 | |
| Surgeonfishes/tangs | 494 | $1,054 | $2.13 | * |
| Unicornfishes (misc) | 98 | $196 | $2.00 | * |
| Squirrelfish | 160 | $320 | $2.00 | * |
| Parrotfishes (misc) | 766 | $1,806 | $2.36 | * |
| Inshore groupers | 19 | $38 | $2.00 | * |
| Mahimahi | 5,784 | $7,526 | $1.30 | |
| Swordfish | 907 | $2,048 | $2.26 | * |
| Sailfish | 636 | $579 | $0.91 | |
| Rainbow runner | 9 | $17 | $1.91 | |
| Wahoo | 59,811 | $56,433 | $0.94 | |
| Skipjack tuna | 36,126 | $21,876 | $0.61 | |
| Bluefin tuna | 390 | $975 | $2.50 | * |
| Albacore | 390,351 | $390,351 | $1.00 | |
| Yellowfin tuna | 286,718 | $258,364 | $0.90 | |
| Bigeye tuna | 56,819 | $62,634 | $1.10 | |
| Spiny lobster | 431 | $1,882 | $4.37 | * |
| Octopus | 10 | $20 | $2.00 | * |
| Tilapia | 400 | $500 | $1.25 | * |
| TOTAL | 840,787 | $808,532 | $0.96 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-9**
**American Samoa August 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Bigeye scad | 95 | $231 | $2.43 | * |
| Mackerel | 30 | $60 | $2.00 | * |
| Trevally (misc) | 20 | $22 | $1.10 | * |
| Black jack | 7 | $19 | $2.60 | |
| Whitemouth trevally | 0 | $1 | $2.42 | |
| Barracudas (misc) | 38 | $69 | $1.83 | |
| Mullets | 142 | $320 | $2.25 | * |
| Groupers (misc) | 15 | $29 | $2.00 | |
| Peacock grouper | 2 | $4 | $1.73 | |
| Tomato grouper | 6 | $14 | $2.50 | |
| White-edged lyretail | 2 | $3 | $1.85 | |
| Blacktip grouper | 0 | $0 | $2.79 | |
| Spotted grouper | 3 | $7 | $2.61 | |
| Lunartail grouper | 38 | $76 | $2.00 | |
| Blue lined snapper | 88 | $213 | $2.42 | * |
| Rufous snapper | 12 | $31 | $2.60 | |
| Yellow margined snapper | 3 | $5 | $2.00 | |
| Onespot snapper | 2 | $3 | $1.94 | |
| Twinspot/red snapper | 0 | $0 | $2.00 | |
| Paddletail snapper | 49 | $93 | $1.91 | |
| Gray jobfish | 30 | $59 | $1.95 | |
| Yellowtail snapper | 5 | $9 | $1.95 | |
| Smalltooth jobfish (lehi) | 31 | $63 | $2.05 | |
| Squirrel snapper (ehu) | 240 | $480 | $2.00 | * |
| Black snapper | 20 | $42 | $2.10 | * |
| Bigeye emperor | 3 | $6 | $2.05 | |
| Longnose emperor | 9 | $16 | $1.87 | |
| Ambon emperor | 13 | $35 | $2.75 | |
| Blueline bream | 0 | $1 | $2.44 | |
| Redgill emperor | 47 | $117 | $2.51 | |
| Pomfret | 12 | $25 | $2.00 | |
| Flounders | 44 | $100 | $2.26 | * |
| Surgeonfishes/tangs | 1,730 | $3,468 | $2.00 | * |
| Unicornfishes (misc) | 529 | $1,122 | $2.12 | * |
| Squirrelfish | 77 | $153 | $2.00 | * |
| Parrotfishes (misc) | 1,504 | $3,104 | $2.06 | * |
| Inshore groupers | 119 | $234 | $1.97 | * |
| Triggerfish | 1 | $3 | $1.99 | |
| Inshore snappers | 1 | $2 | $2.46 | |
| Red snapper | 20 | $40 | $2.00 | |
| Mahimahi | 6,966 | $8,809 | $1.26 | |
| Swordfish | 992 | $2,012 | $2.03 | * |
| Blue marlin | 645 | $645 | $1.00 | |
| Sailfish | 249 | $226 | $0.91 | |
| Wahoo | 52,082 | $47,820 | $0.92 | |
| Skipjack tuna | 21,247 | $13,059 | $0.61 | |
| Albacore | 757,901 | $758,081 | $1.00 | |
| Yellowfin tuna | 133,891 | $119,795 | $0.89 | |
| Bigeye tuna | 31,743 | $34,858 | $1.10 | |
| Spiny lobster | 336 | $1,412 | $4.20 | * |
| Octopus | 42 | $120 | $2.85 | * |

**Table A-9 (Cont)**
**American Samoa August 2005 Estimated Commercial Landings**

| Species | Pounds | Value | $/Lb | |
|---|---|---|---|---|
| Shrimp | 36 | $135 | $3.74 | * |
| Tilapia | 702 | $749 | $1.07 | * |
| Angler flatfish | 92 | $163 | $1.77 | * |
| Pa'a crab | 35 | $210 | $6.00 | * |
| TOTAL | 1,011,942 | $998,368 | $0.99 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-10**
**American Samoa September 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Bigeye scad | 148 | $147 | $0.99 | * |
| Mackerel | 5 | $11 | $2.00 | * |
| Black jack | 3 | $8 | $2.60 | |
| Whitemouth trevally | 1 | $2 | $2.40 | |
| Barracudas (misc) | 24 | $43 | $1.81 | |
| Mullets | 113 | $242 | $2.14 | * |
| Groupers (misc) | 7 | $13 | $2.00 | |
| Peacock grouper | 5 | $9 | $1.73 | |
| Tomato grouper | 3 | $8 | $2.50 | |
| White-edged lyretail | 1 | $1 | $1.86 | |
| Blacktip grouper | 1 | $2 | $2.74 | |
| Spotted grouper | 1 | $3 | $2.60 | |
| Lunartail grouper | 35 | $70 | $2.00 | |
| Blue lined snapper | 54 | $123 | $2.28 | * |
| Rufous snapper | 5 | $14 | $2.60 | |
| Yellow margined snapper | 1 | $2 | $2.00 | |
| Onespot snapper | 2 | $4 | $1.93 | |
| Twinspot/red snapper | 1 | $2 | $2.01 | |
| Paddletail snapper | 186 | $403 | $2.16 | * |
| Gray jobfish | 13 | $26 | $1.95 | |
| Pink snapper (opakapaka) | 290 | $595 | $2.05 | * |
| Yellowtail snapper | 110 | $180 | $1.63 | * |
| Smalltooth jobfish (lehi) | 14 | $28 | $2.05 | |
| Longtail snapper (onaga) | 30 | $90 | $3.00 | * |
| Squirrel snapper (ehu) | 30 | $60 | $2.00 | * |
| Bigeye emperor | 1 | $3 | $2.05 | |
| Longnose emperor | 4 | $7 | $1.87 | |
| Ambon emperor | 10 | $27 | $2.75 | |
| Blueline bream | 1 | $3 | $2.46 | |
| Redgill emperor | 33 | $83 | $2.54 | |
| Oilfish | 3 | $3 | $1.00 | |
| Pomfret | 6 | $11 | $2.00 | |
| Flounders | 20 | $59 | $2.95 | * |
| Surgeonfishes/tangs | 1,260 | $2,521 | $2.00 | * |
| Unicornfishes (misc) | 172 | $343 | $2.00 | * |
| Squirrelfish | 59 | $118 | $2.00 | * |
| Parrotfishes (misc) | 1,199 | $2,708 | $2.26 | * |
| Inshore groupers | 138 | $274 | $1.98 | * |
| Triggerfish | 5 | $10 | $2.00 | |
| Inshore snappers | 0 | $1 | $2.45 | |
| Red snapper | 9 | $18 | $2.00 | |
| Mahimahi | 6,715 | $7,920 | $1.18 | |
| Swordfish | 470 | $896 | $1.91 | * |
| Blue marlin | 327 | $341 | $1.04 | |
| Wahoo | 43,769 | $40,070 | $0.92 | |
| Skipjack tuna | 10,352 | $6,266 | $0.61 | |
| Albacore | 649,849 | $650,203 | $1.00 | |
| Yellowfin tuna | 87,090 | $78,899 | $0.91 | |
| Bigeye tuna | 22,776 | $25,144 | $1.10 | |
| Spiny lobster | 229 | $1,031 | $4.50 | * |
| Octopus | 120 | $456 | $3.82 | * |

**Table A-10 (Cont)**
**American Samoa September 2005 Estimated Commercial Landings**

| Species | Pounds | Value | $/Lb | |
|---|---|---|---|---|
| Shrimp | 144 | $431 | $2.99 | * |
| Tilapia | 812 | $941 | $1.16 | * |
| Salmon | 32 | $64 | $2.00 | * |
| Angler flatfish | 10 | $36 | $3.60 | * |
| TOTAL | 826,696 | $820,969 | $0.99 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-11**
**American Samoa October 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 3 | $8 | $2.60 | |
| Barracudas (misc) | 96 | $169 | $1.76 | |
| Groupers (misc) | 6 | $12 | $2.00 | |
| Peacock grouper | 0 | $1 | $1.74 | |
| Tomato grouper | 2 | $5 | $2.50 | |
| White-edged lyretail | 1 | $1 | $1.86 | |
| Spotted grouper | 1 | $3 | $2.60 | |
| Lunartail grouper | 13 | $26 | $2.00 | |
| Blue lined snapper | 46 | $113 | $2.47 | * |
| Rufous snapper | 5 | $13 | $2.60 | |
| Yellow margined snapper | 1 | $2 | $1.99 | |
| Onespot snapper | 1 | $1 | $1.95 | |
| Paddletail snapper | 90 | $180 | $2.00 | * |
| Gray jobfish | 12 | $24 | $1.95 | |
| Pink snapper (opakapaka) | 149 | $418 | $2.80 | * |
| Yellowtail snapper | 110 | $250 | $2.27 | * |
| Smalltooth jobfish (lehi) | 13 | $26 | $2.05 | |
| Squirrel snapper (ehu) | 130 | $260 | $2.00 | * |
| Bigeye emperor | 1 | $2 | $2.05 | |
| Longnose emperor | 3 | $6 | $1.87 | |
| Ambon emperor | 5 | $13 | $2.75 | |
| Redgill emperor | 17 | $43 | $2.51 | |
| Pomfret | 5 | $10 | $2.00 | |
| Surgeonfishes/tangs | 623 | $1,239 | $1.99 | * |
| Unicornfishes (misc) | 87 | $229 | $2.63 | * |
| Squirrelfish | 40 | $80 | $2.00 | * |
| Parrotfishes (misc) | 480 | $1,096 | $2.29 | * |
| Inshore groupers | 75 | $150 | $2.00 | * |
| Inshore snappers | 0 | $1 | $2.45 | |
| Red snapper | 8 | $16 | $2.00 | |
| Mahimahi | 1,703 | $2,443 | $1.43 | * |
| Swordfish | 1,286 | $2,310 | $1.80 | * |
| Blue marlin | 773 | $911 | $1.18 | * |
| Sailfish | 96 | $87 | $0.91 | |
| Wahoo | 61,250 | $55,839 | $0.91 | |
| Skipjack tuna | 29,675 | $17,967 | $0.61 | |
| Albacore | 911,870 | $911,870 | $1.00 | |
| Yellowfin tuna | 98,845 | $88,589 | $0.90 | |
| Bigeye tuna | 32,625 | $36,074 | $1.11 | |
| Spiny lobster | 222 | $938 | $4.23 | * |
| Octopus | 265 | $645 | $2.43 | * |
| Tilapia | 491 | $585 | $1.19 | * |
| TOTAL | 1,141,124 | $1,122,651 | $0.98 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-12**
**American Samoa November 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Mackerel | 20 | $36 | $1.79 | * |
| Black jack | 6 | $14 | $2.60 | |
| Whitemouth trevally | 0 | $1 | $2.42 | |
| Barracudas (misc) | 9 | $18 | $2.00 | |
| Milkfish | 55 | $76 | $1.38 | * |
| Groupers (misc) | 11 | $22 | $2.00 | |
| Peacock grouper | 3 | $4 | $1.73 | |
| Tomato grouper | 4 | $11 | $2.50 | |
| White-edged lyretail | 1 | $2 | $1.85 | |
| Blacktip grouper | 0 | $1 | $2.76 | |
| Spotted grouper | 2 | $5 | $2.59 | |
| Lunartail grouper | 33 | $67 | $2.00 | |
| Blue lined snapper | 16 | $32 | $1.99 | |
| Rufous snapper | 9 | $24 | $2.60 | |
| Yellow margined snapper | 2 | $4 | $2.01 | |
| Onespot snapper | 2 | $3 | $1.93 | |
| Twinspot/red snapper | 0 | $1 | $2.00 | |
| Paddletail snapper | 88 | $175 | $2.00 | * |
| Gray jobfish | 23 | $45 | $1.95 | |
| Pink snapper (opakapaka) | 85 | $249 | $2.95 | * |
| Flower snapper (gindai) | 30 | $51 | $1.69 | * |
| Yellowtail snapper | 4 | $7 | $1.95 | |
| Smalltooth jobfish (lehi) | 24 | $49 | $2.05 | |
| Longtail snapper (onaga) | 14 | $81 | $5.79 | * |
| Squirrel snapper (ehu) | 70 | $140 | $2.00 | * |
| Bigeye emperor | 2 | $5 | $2.05 | |
| Longnose emperor | 7 | $12 | $1.87 | |
| Ambon emperor | 11 | $29 | $2.75 | |
| Blueline bream | 1 | $1 | $2.49 | |
| Redgill emperor | 38 | $97 | $2.52 | |
| Pomfret | 23 | $46 | $2.00 | |
| Surgeonfishes/tangs | 1,790 | $3,571 | $1.99 | * |
| Unicornfishes (misc) | 224 | $448 | $2.00 | * |
| Squirrelfish | 95 | $190 | $2.00 | * |
| Parrotfishes (misc) | 1,315 | $2,933 | $2.23 | * |
| Inshore groupers | 100 | $201 | $2.00 | * |
| Triggerfish | 2 | $4 | $2.01 | |
| Inshore snappers | 1 | $2 | $2.47 | |
| Red snapper | 15 | $30 | $2.00 | |
| Mahimahi | 568 | $636 | $1.12 | |
| Swordfish | 421 | $1,263 | $3.00 | * |
| Rainbow runner | 3 | $5 | $1.91 | |
| Wahoo | 61,055 | $55,750 | $0.91 | |
| Skipjack tuna | 28,025 | $16,831 | $0.60 | |
| Dogtooth tuna | 5 | $9 | $1.94 | |
| Albacore | 986,449 | $987,363 | $1.00 | |
| Yellowfin tuna | 74,742 | $67,020 | $0.90 | |
| Bigeye tuna | 29,761 | $32,811 | $1.10 | |
| Spiny lobster | 818 | $3,501 | $4.28 | * |
| Octopus | 69 | $180 | $2.61 | * |
| Tilapia | 400 | $571 | $1.43 | * |

**Table A-12 (Cont)**
**American Samoa November 2005 Estimated Commercial Landings**

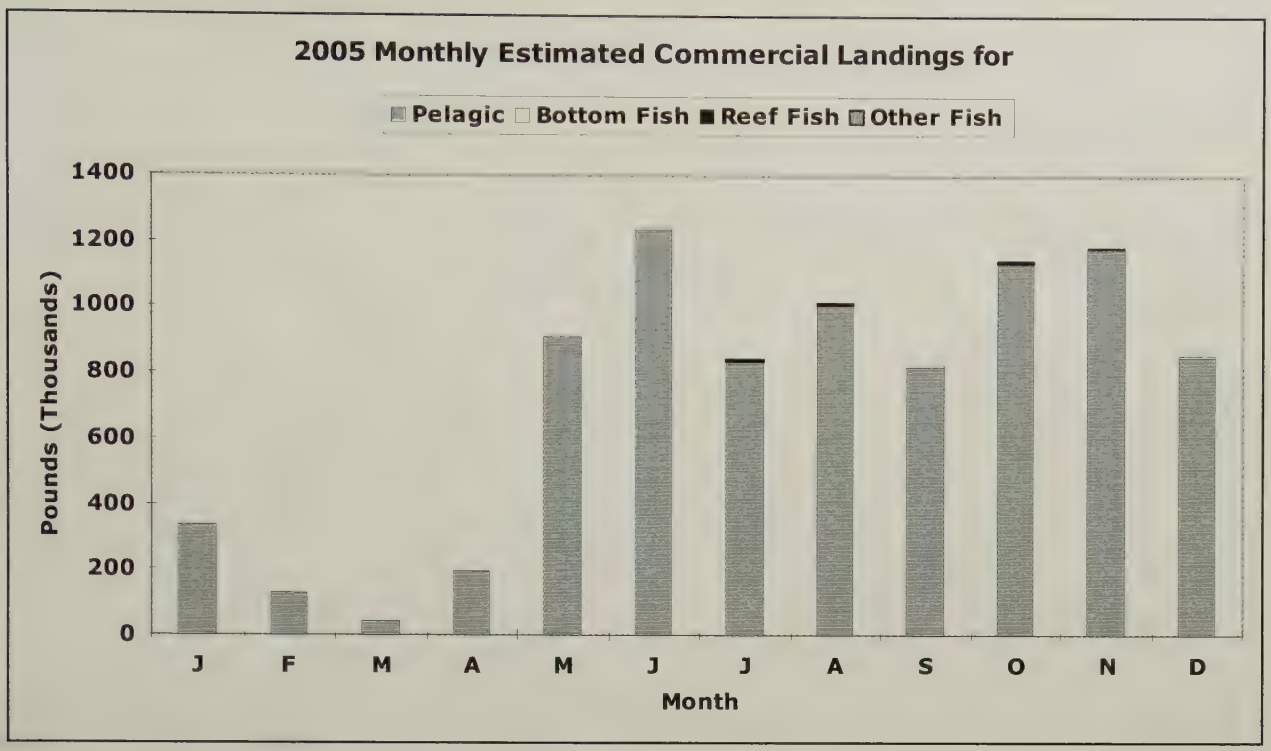
| Species | Pounds | Value | $/Lb | |
|---|---|---|---|---|
| Angler flatfish | 30 | $68 | $2.25 | * |
| TOTAL | 1,186,479 | $1,174,695 | $0.99 | |

* Data replaced or modified by Actual Commercial Landings Data

**Table A-13**
**American Samoa December 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb | |
|---|---|---|---|---|
| Black jack | 4 | $9 | $2.60 | |
| Barracudas (misc) | 47 | $84 | $1.78 | |
| Groupers (misc) | 7 | $15 | $2.00 | |
| Peacock grouper | 0 | $1 | $1.73 | |
| Tomato grouper | 3 | $7 | $2.50 | |
| White-edged lyretail | 1 | $1 | $1.85 | |
| Spotted grouper | 1 | $4 | $2.59 | |
| Lunartail grouper | 16 | $32 | $2.00 | |
| Blue lined snapper | 10 | $19 | $1.97 | |
| Rufous snapper | 6 | $15 | $2.60 | |
| Yellow margined snapper | 1 | $3 | $2.00 | |
| Onespot snapper | 2 | $3 | $1.94 | |
| Paddletail snapper | 24 | $46 | $1.91 | |
| Gray jobfish | 15 | $29 | $1.95 | |
| Pink snapper (opakapaka) | 219 | $645 | $2.95 | * |
| Yellowtail snapper | 2 | $4 | $1.96 | |
| Smalltooth jobfish (lehi) | 15 | $31 | $2.05 | |
| Squirrel snapper (ehu) | 11 | $24 | $2.20 | |
| Bigeye emperor | 2 | $3 | $2.05 | |
| Longnose emperor | 4 | $8 | $1.87 | |
| Ambon emperor | 6 | $16 | $2.75 | |
| Redgill emperor | 21 | $53 | $2.50 | |
| Pomfret | 6 | $12 | $2.00 | |
| Surgeonfishes/tangs | 727 | $1,450 | $1.99 | * |
| Unicornfishes (misc) | 65 | $130 | $2.00 | * |
| Squirrelfish | 177 | $406 | $2.29 | * |
| Parrotfishes (misc) | 546 | $1,276 | $2.34 | * |
| Inshore groupers | 38 | $76 | $2.00 | * |
| Inshore snappers | 1 | $1 | $2.43 | |
| Red snapper | 10 | $20 | $2.00 | |
| Mahimahi | 858 | $961 | $1.12 | |
| Swordfish | 696 | $1,768 | $2.54 | * |
| Blue marlin | 1,488 | $1,579 | $1.06 | |
| Rainbow runner | 9 | $17 | $1.91 | |
| Wahoo | 62,316 | $56,708 | $0.91 | |
| Skipjack tuna | 46,764 | $28,132 | $0.60 | |
| Dogtooth tuna | 15 | $30 | $1.94 | |
| Albacore | 612,316 | $613,562 | $1.00 | |
| Yellowfin tuna | 96,219 | $86,474 | $0.90 | |
| Bigeye tuna | 31,989 | $35,393 | $1.11 | |
| Spiny lobster | 893 | $3,800 | $4.25 | * |
| Octopus | 156 | $376 | $2.40 | * |
| Tilapia | 355 | $413 | $1.16 | * |
| TOTAL | 856,061 | $833,634 | $0.97 | |

* Data replaced or modified by Actual Commercial Landings Data

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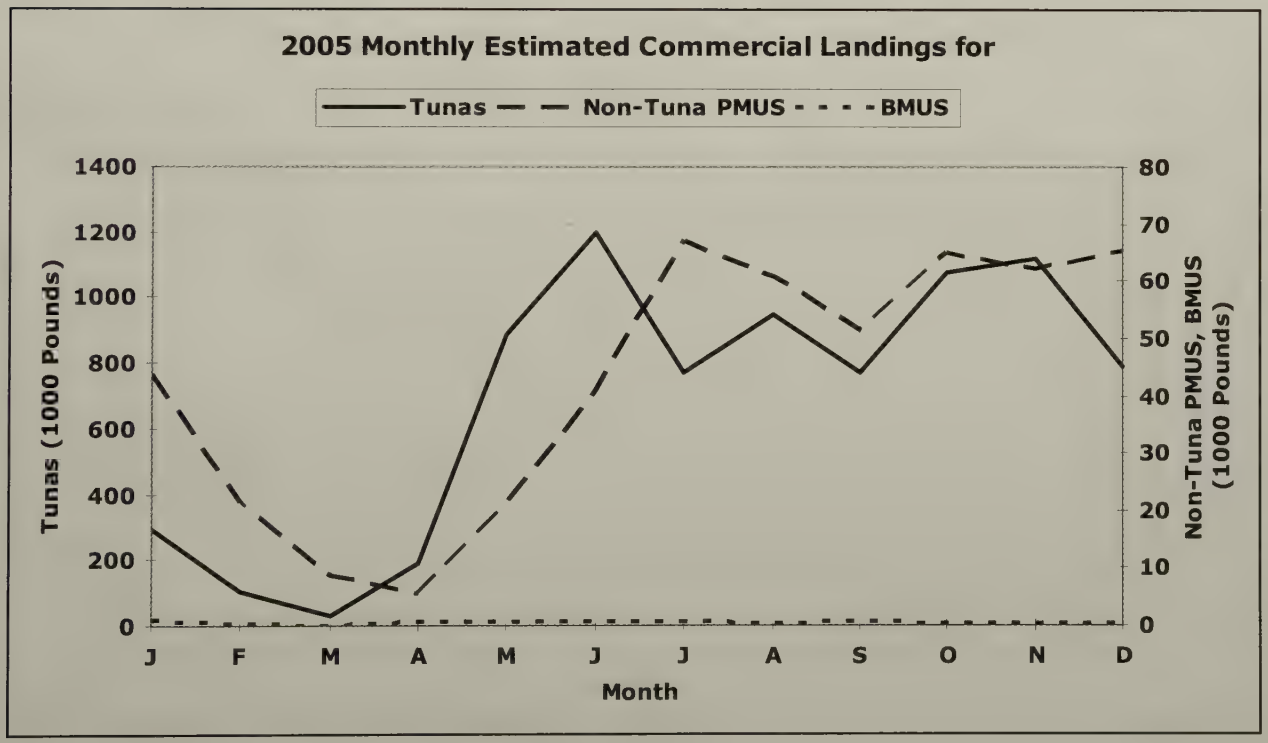


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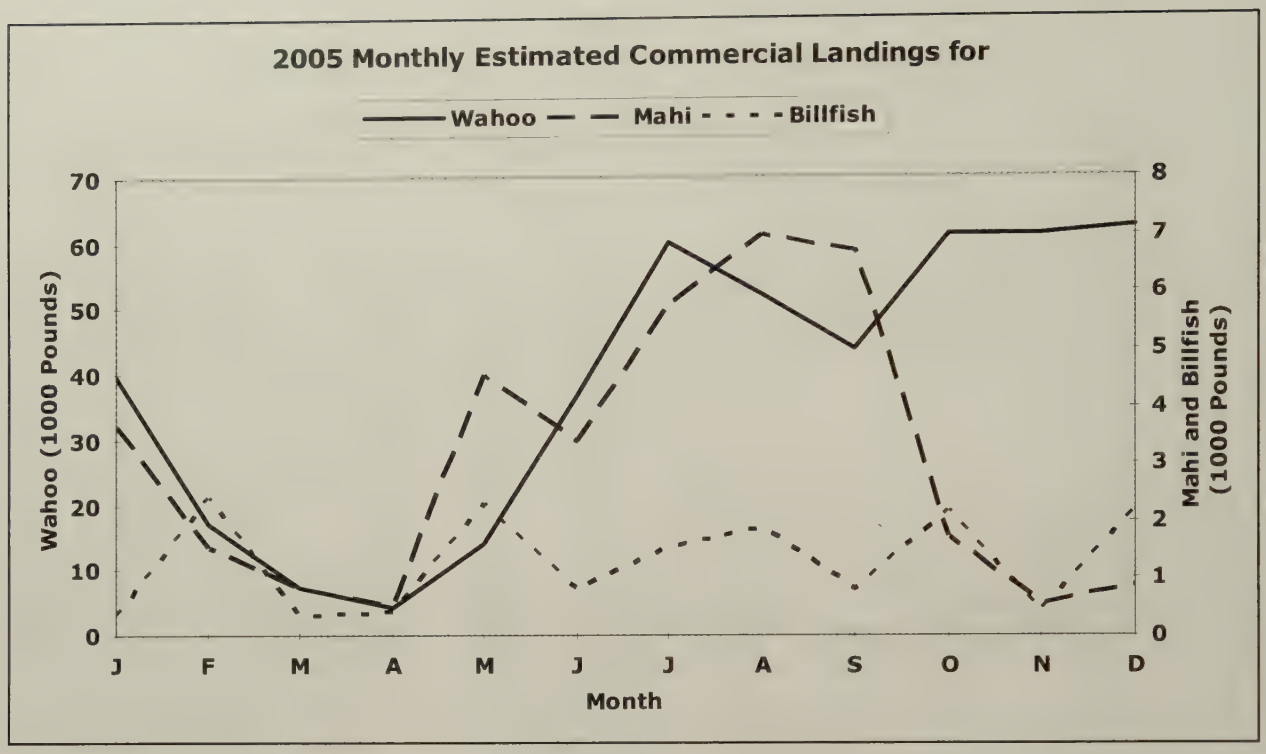
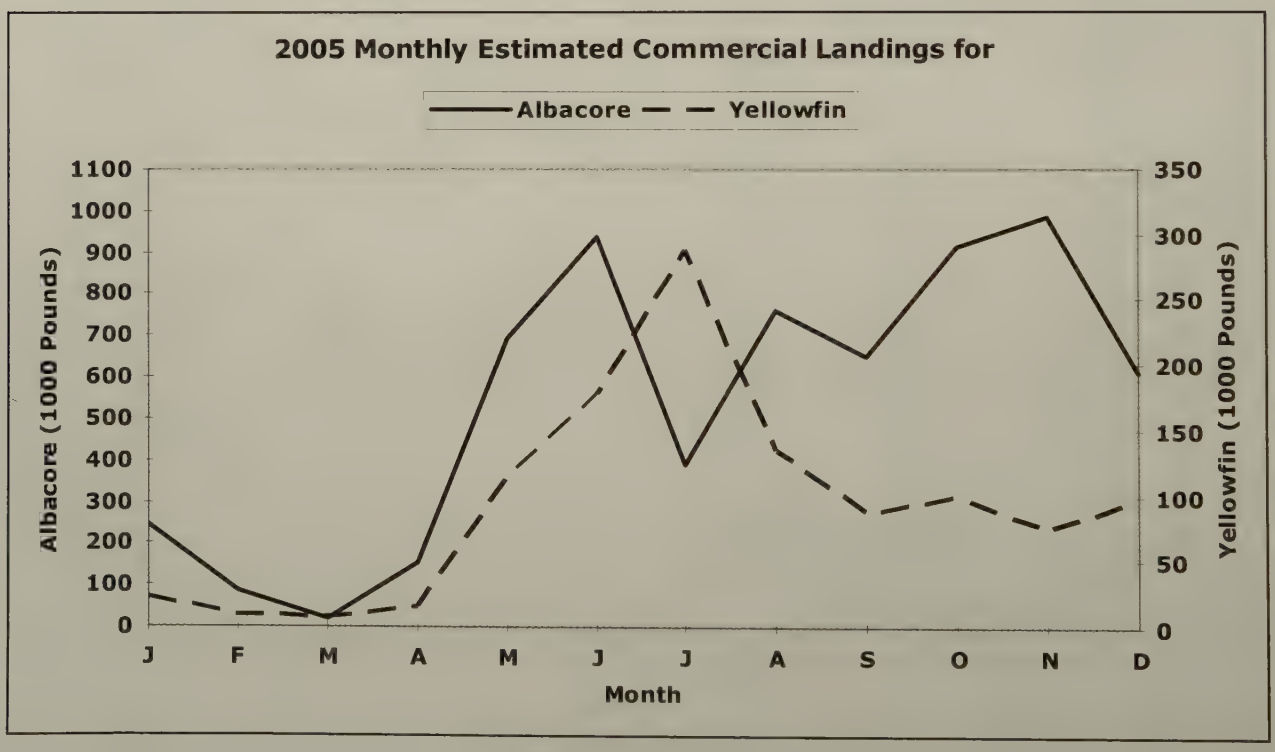

2005 Monthly Estimated Commercial Landings for
Wahoo
Mahi
Billfish
Wahoo (1000 Pounds)
Mahi and Billfish (1000 Pounds)
Month
J F M A M J J A S O N D
0 10 20 30 40 50 60 70
0 1 2 3 4 5 6 7 8

Figure A-1-3


2005 Monthly Estimated Commercial Landings for
Albacore
Yellowfin
Albacore (1000 Pounds)
Yellowfin (1000 Pounds)
Month
J F M A M J J A S O N D
0 100 200 300 400 500 600 700 800 900 1000 1100
0 50 100 150 200 250 300 350

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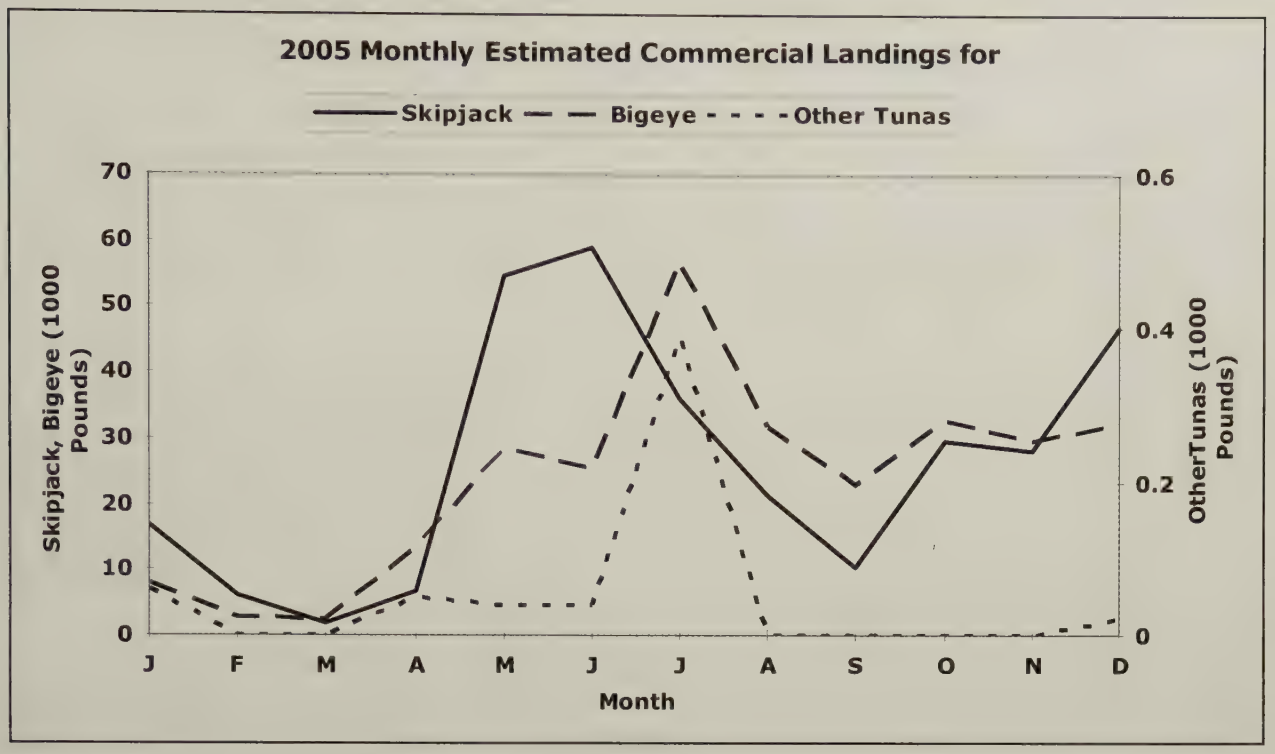


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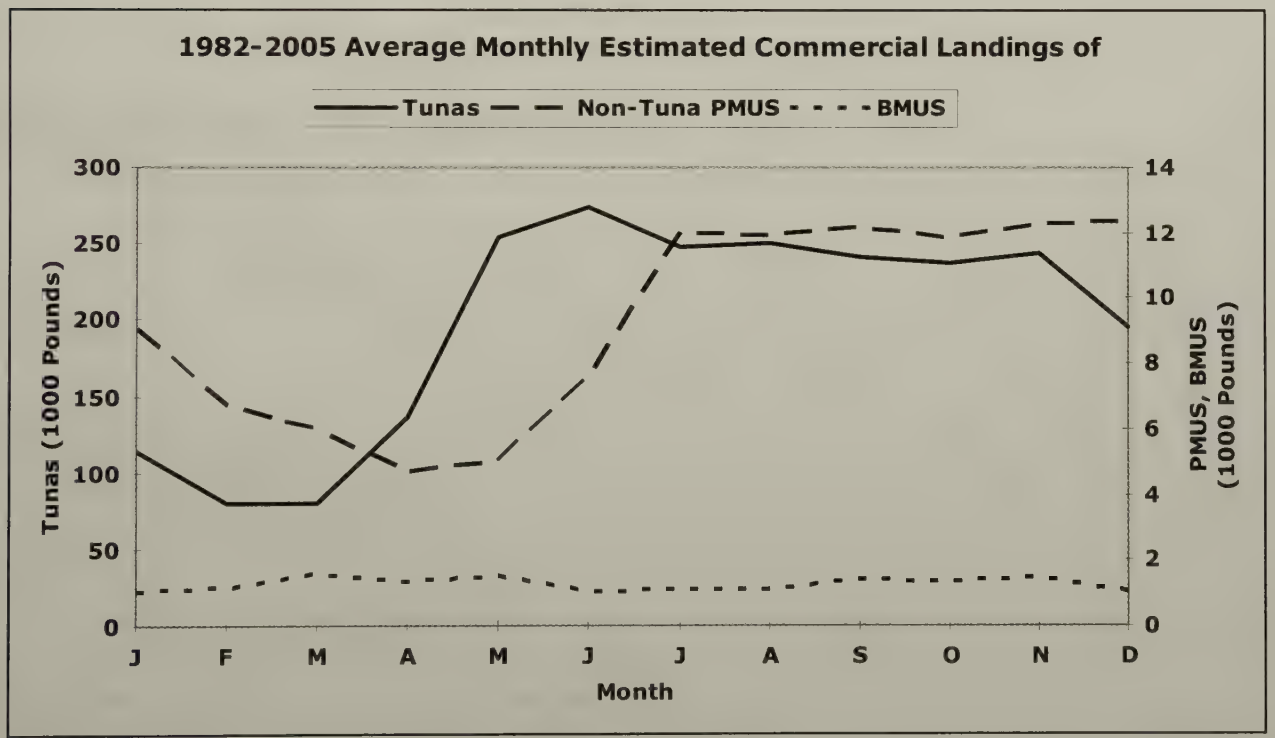


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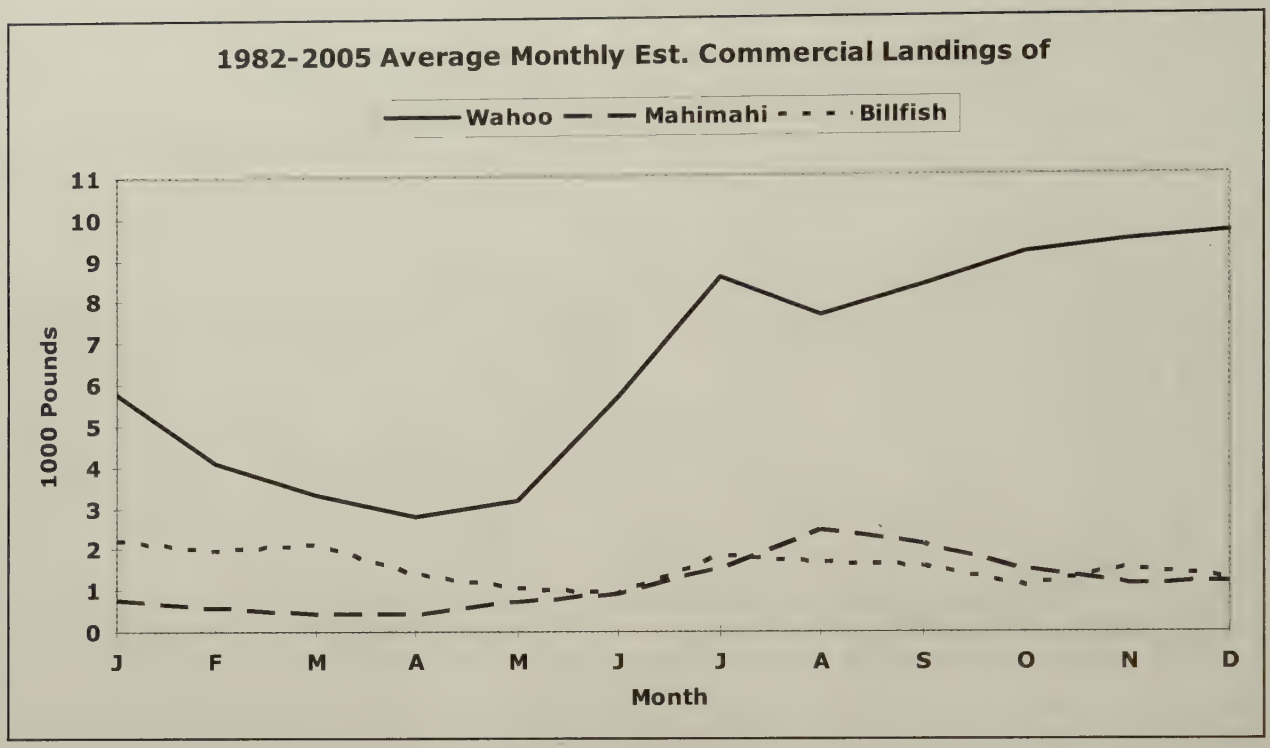


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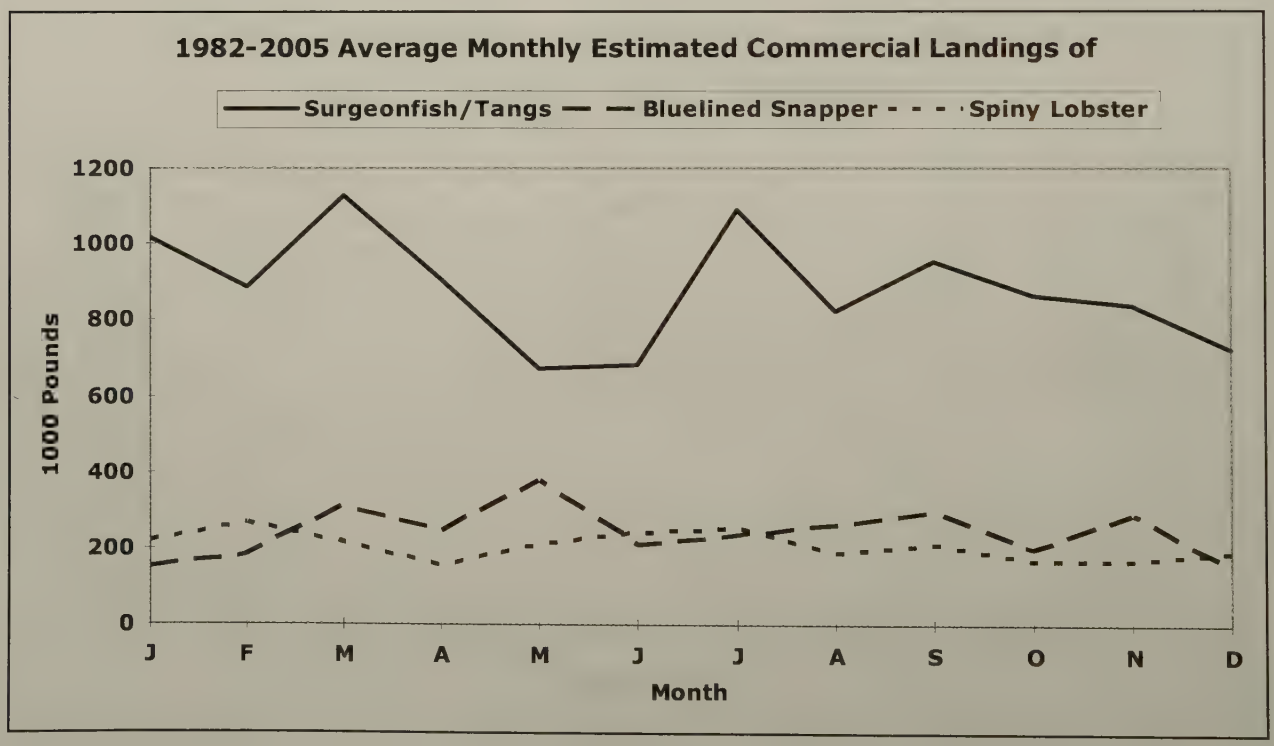


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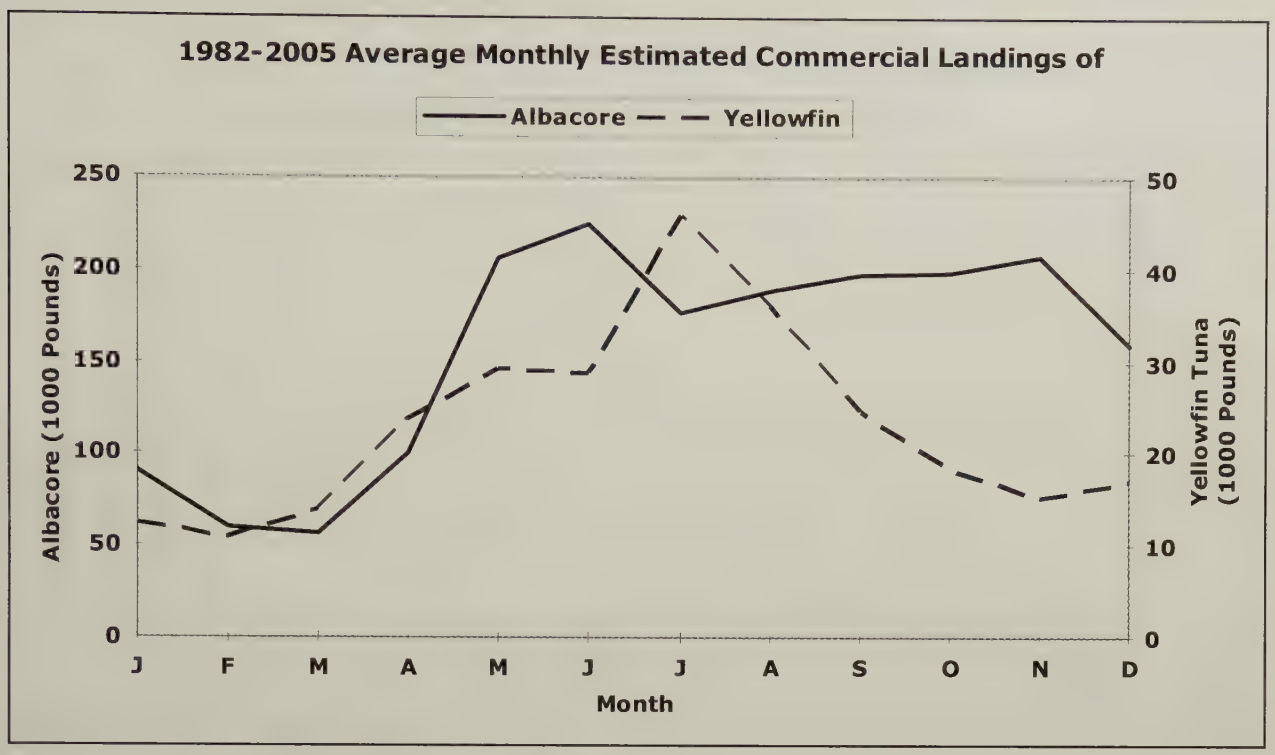


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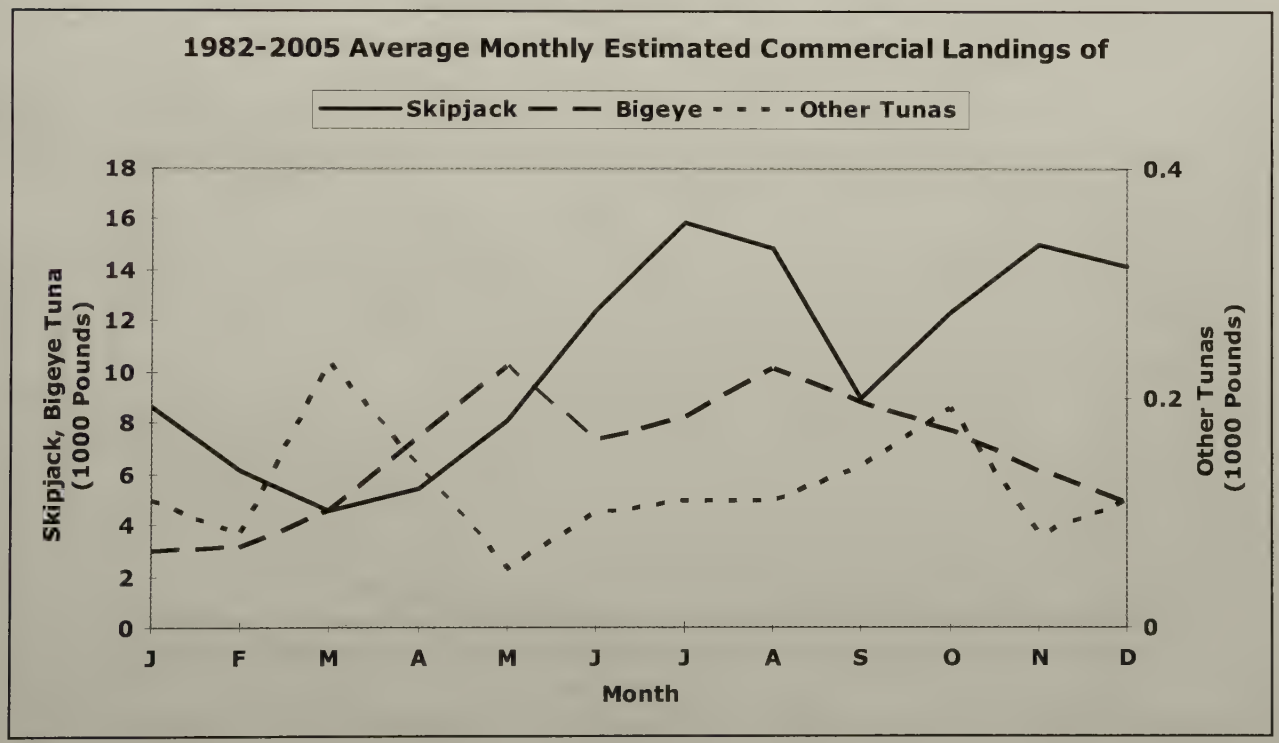
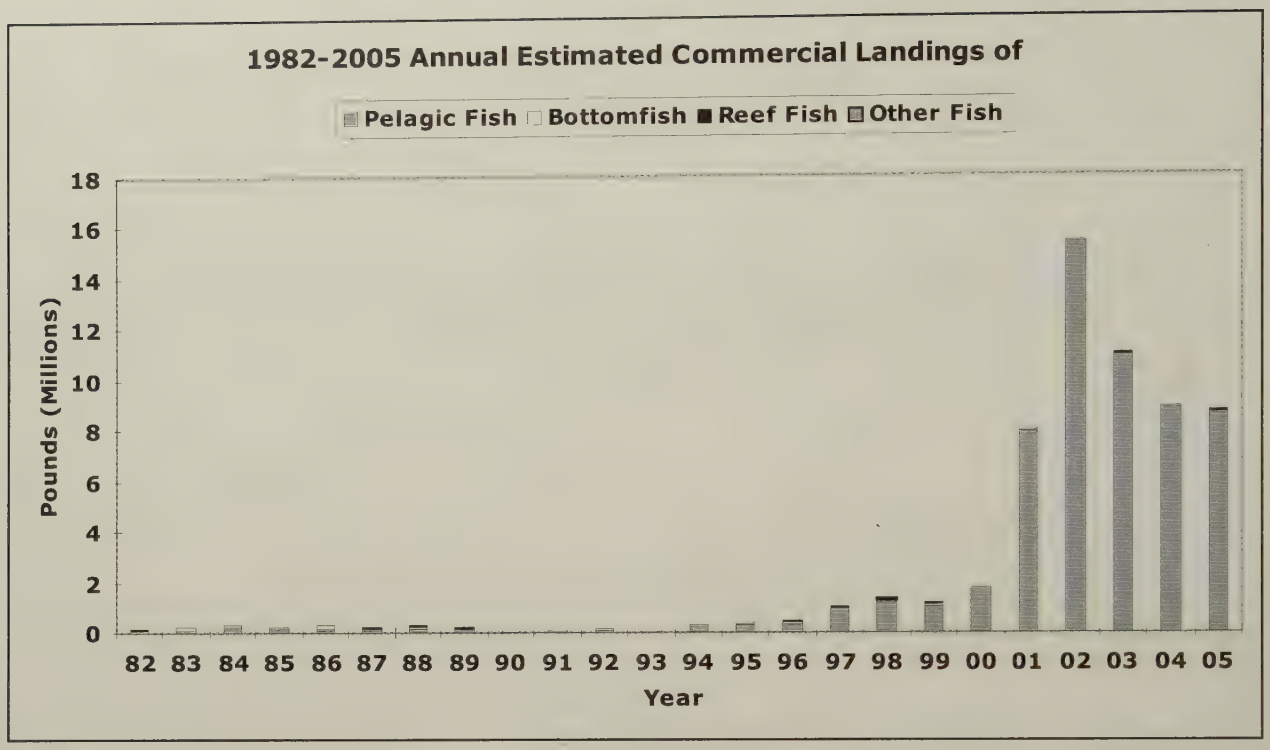



Figure A-2-5

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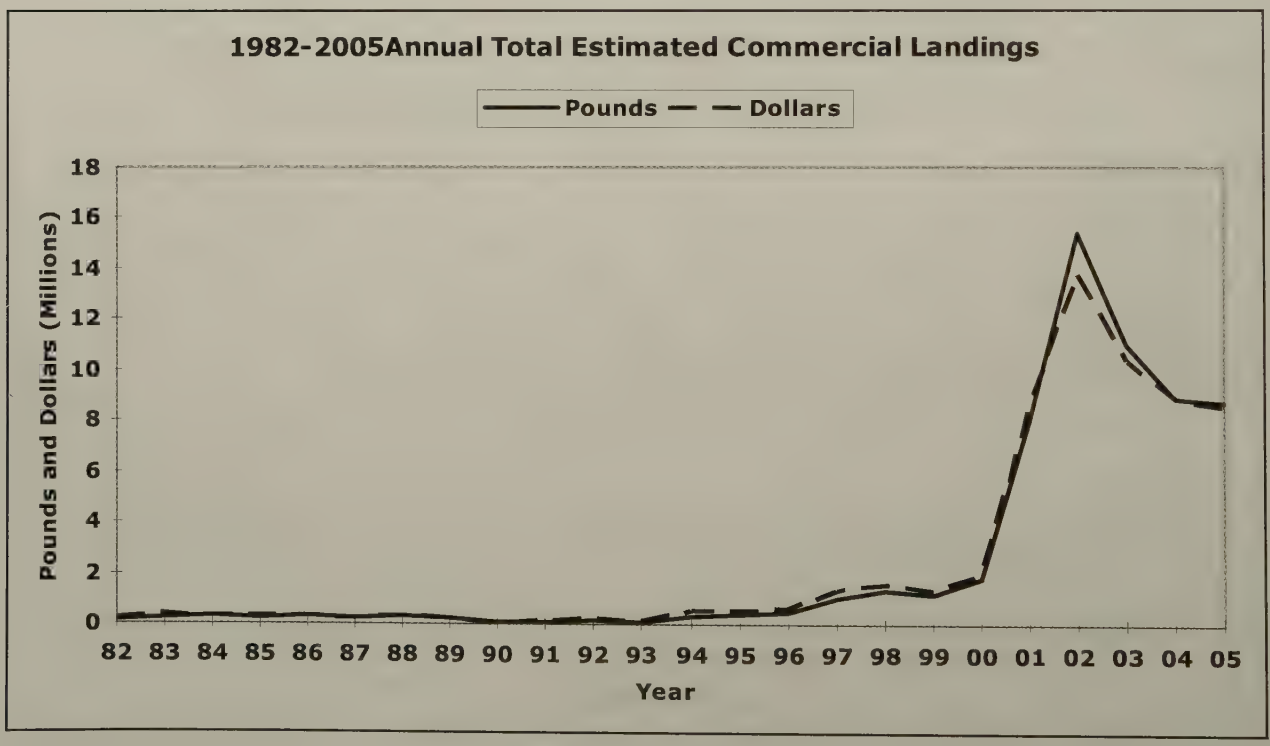


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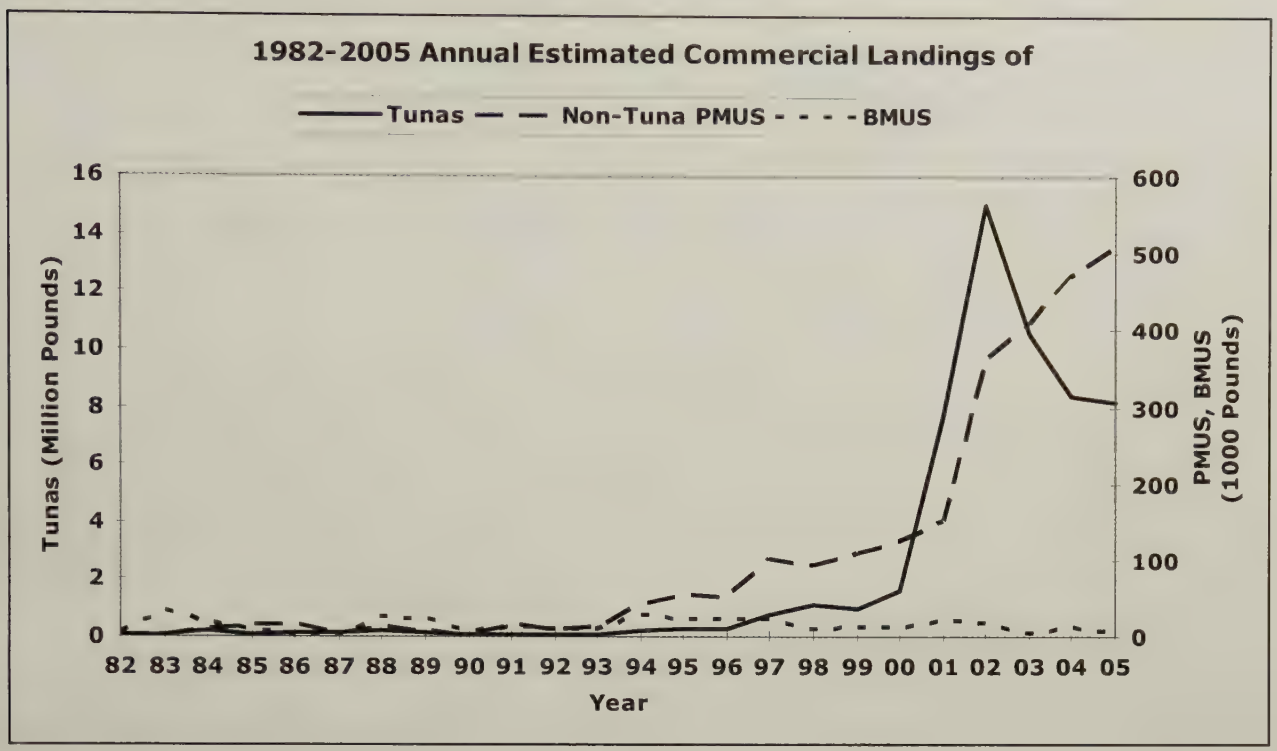


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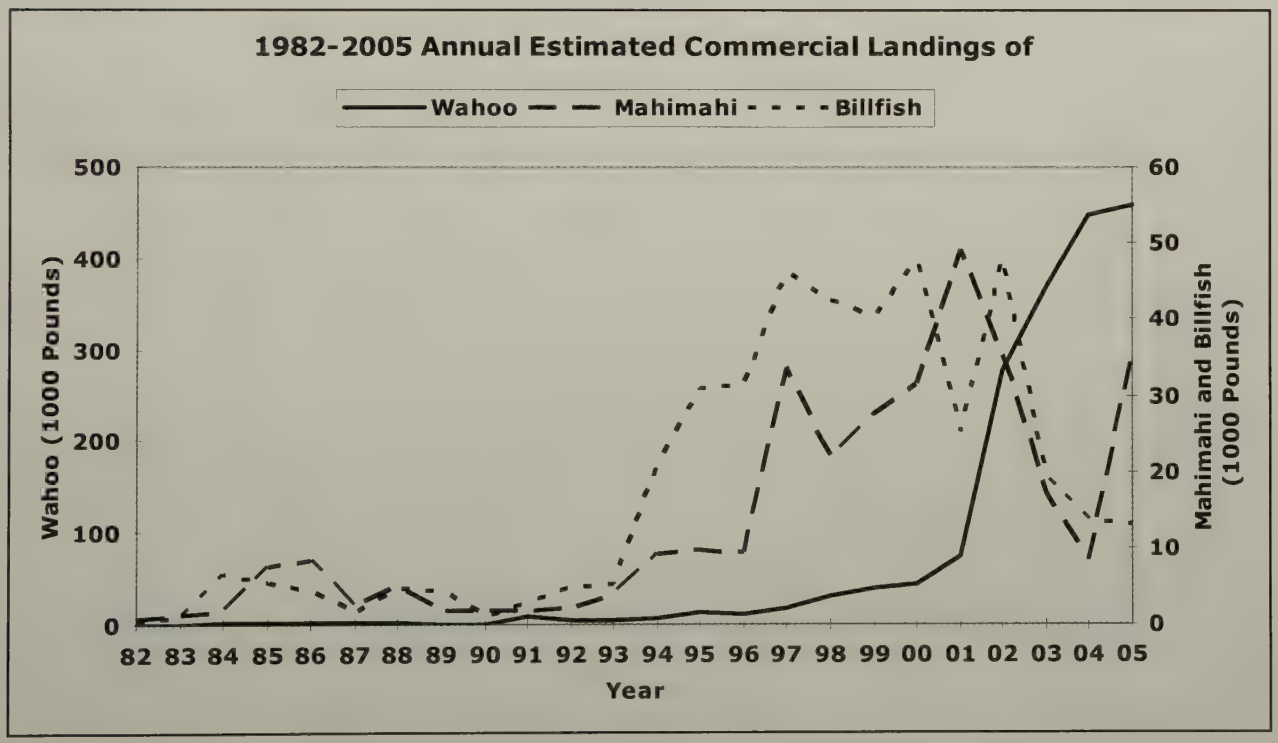


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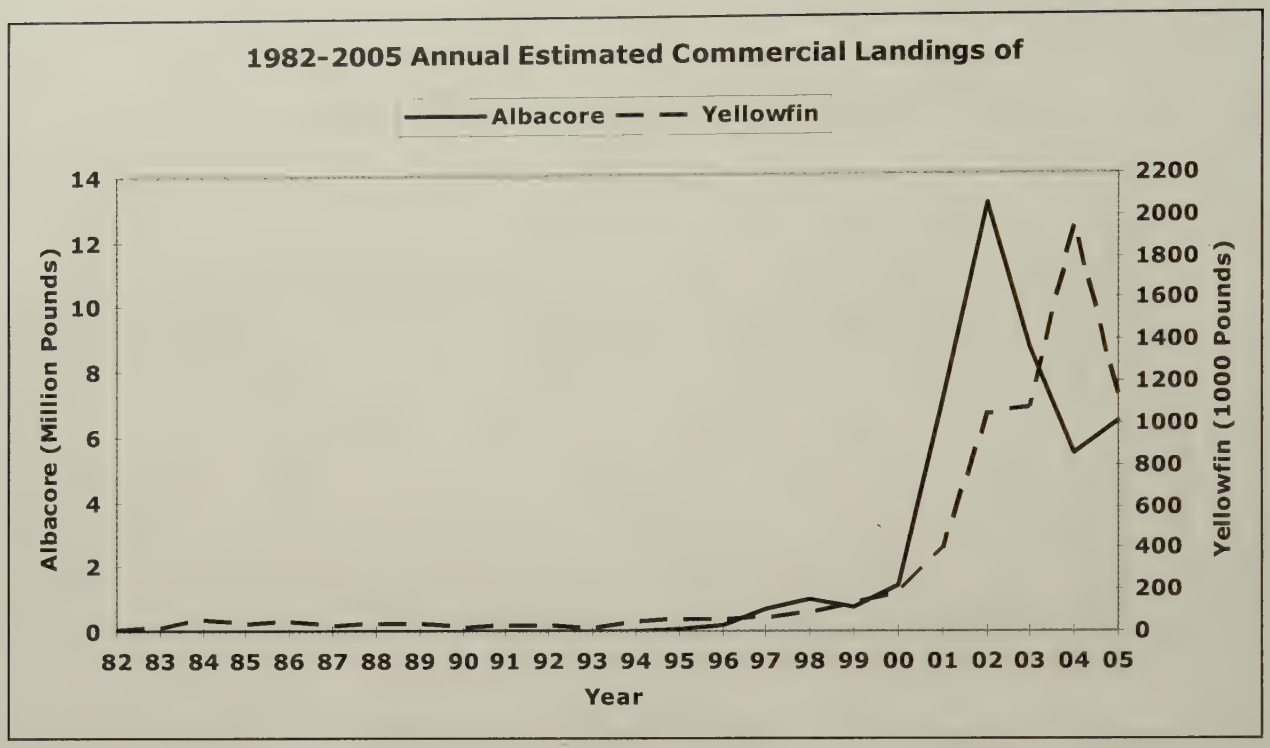


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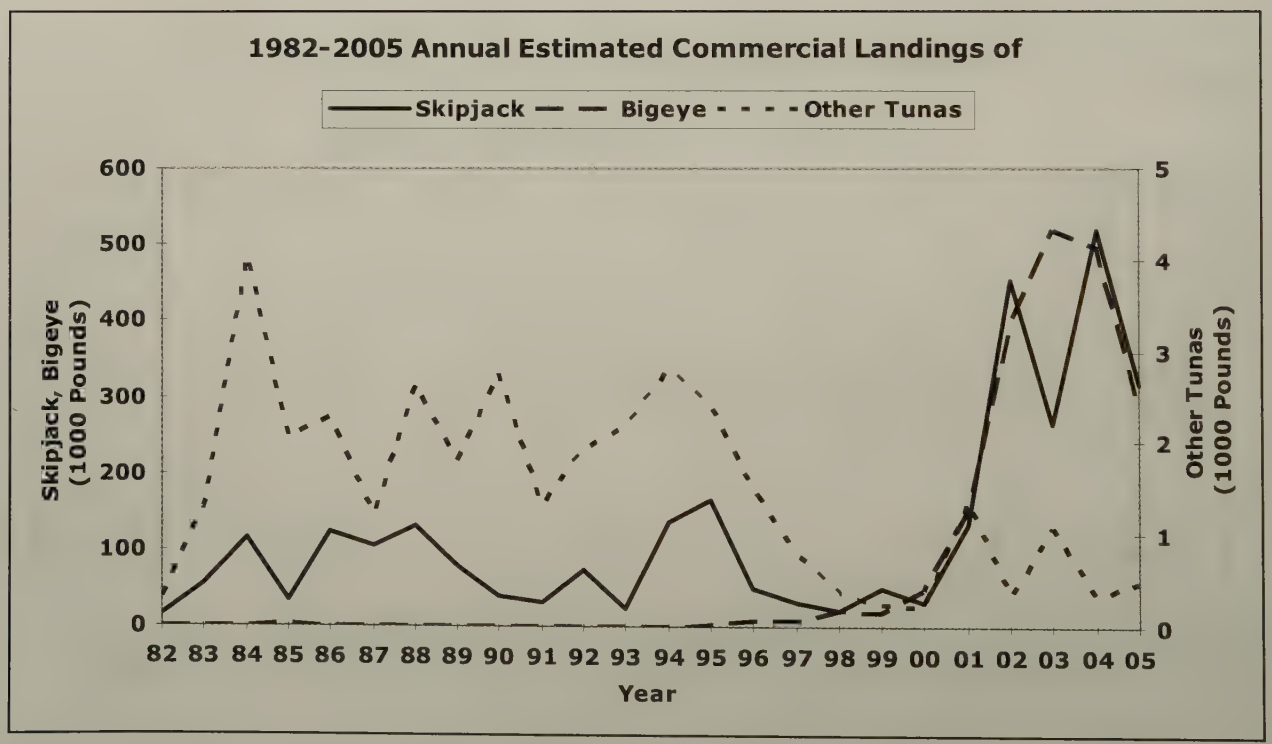


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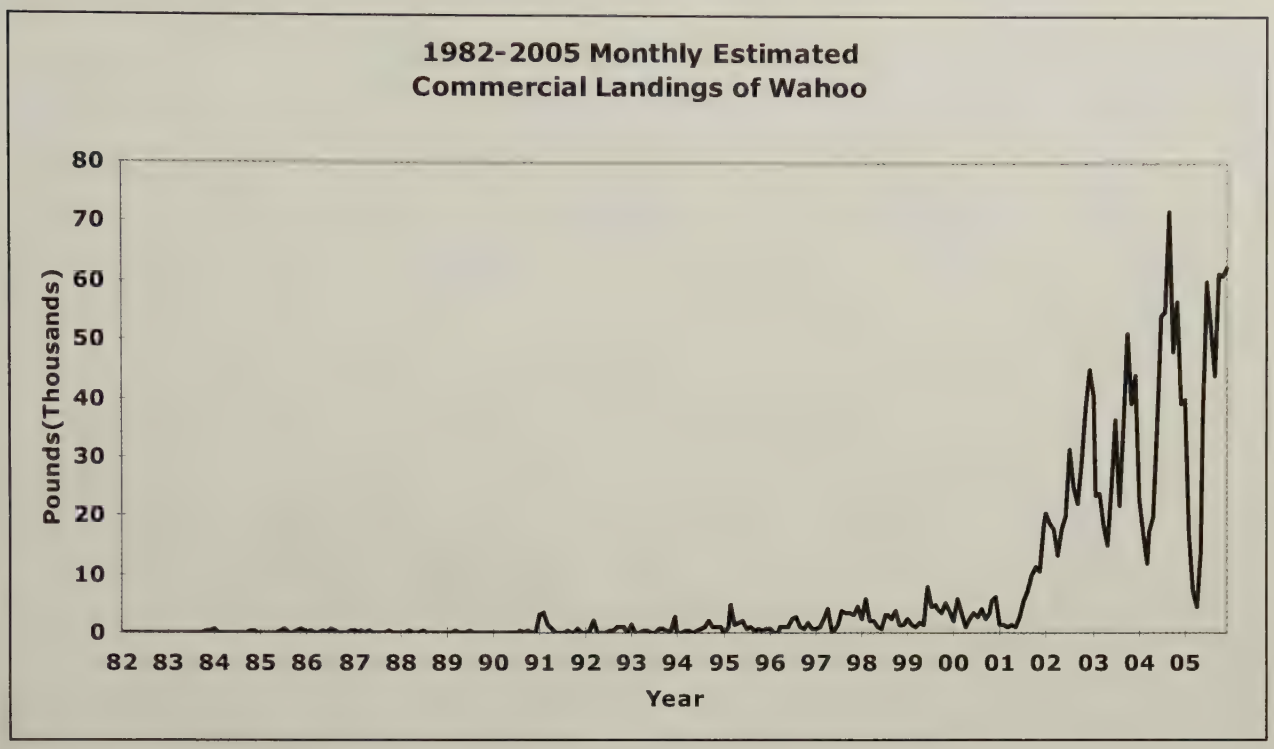


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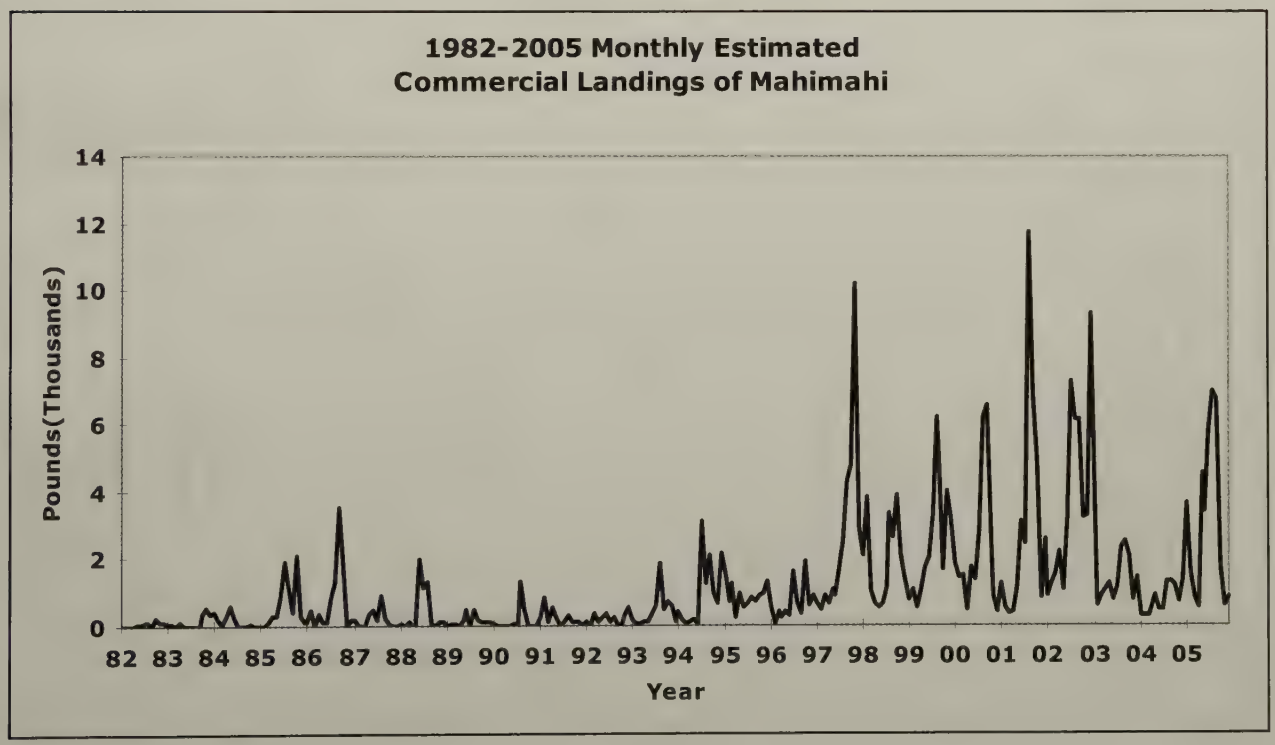


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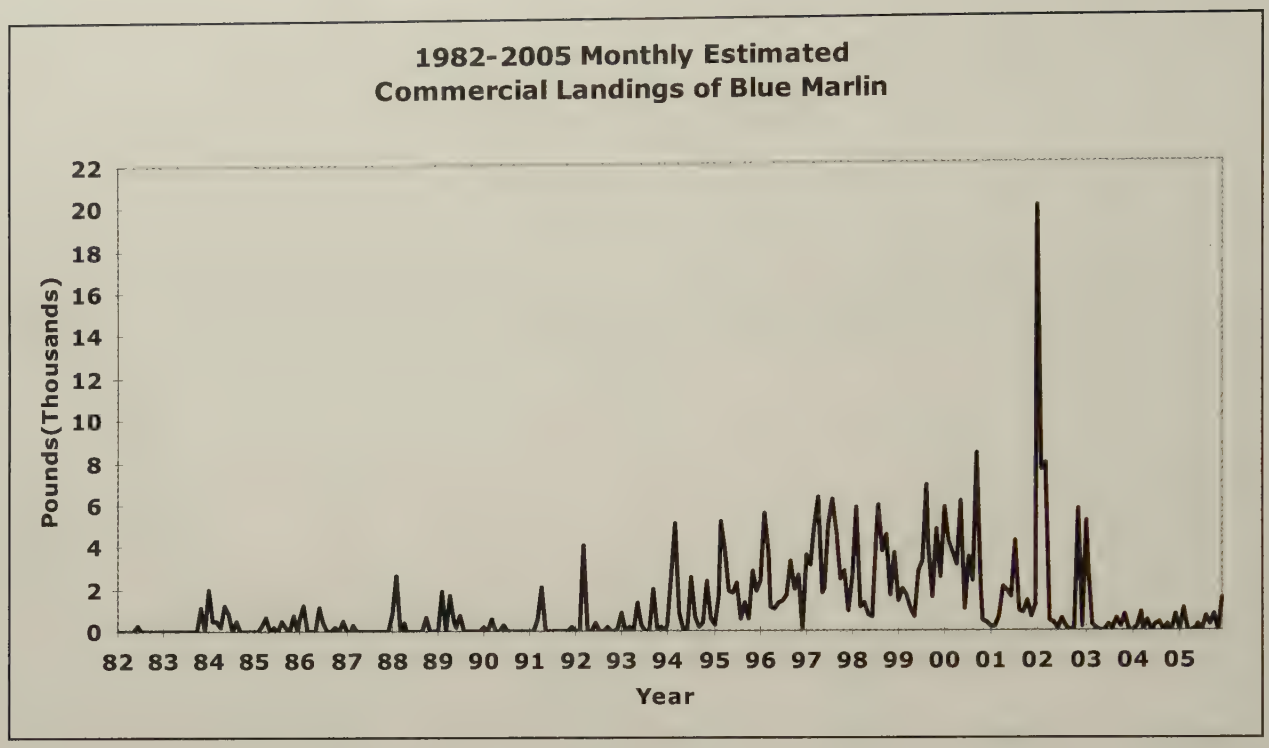


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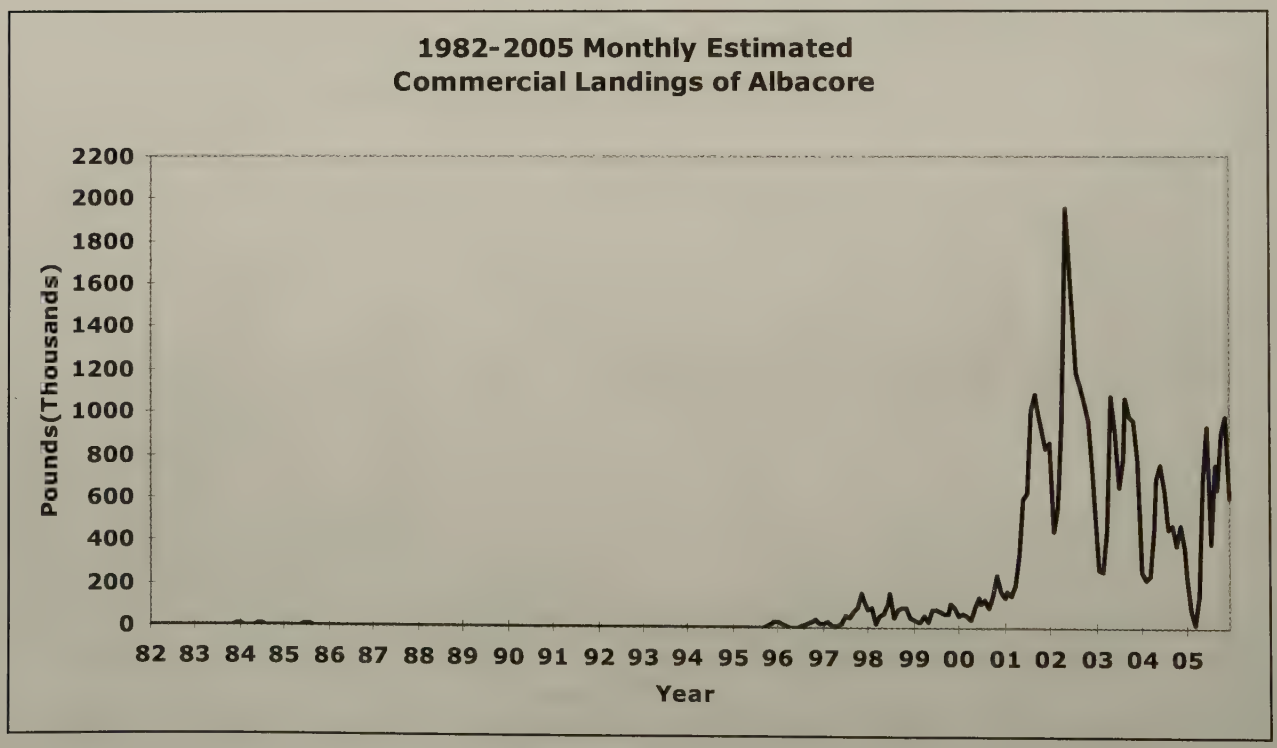


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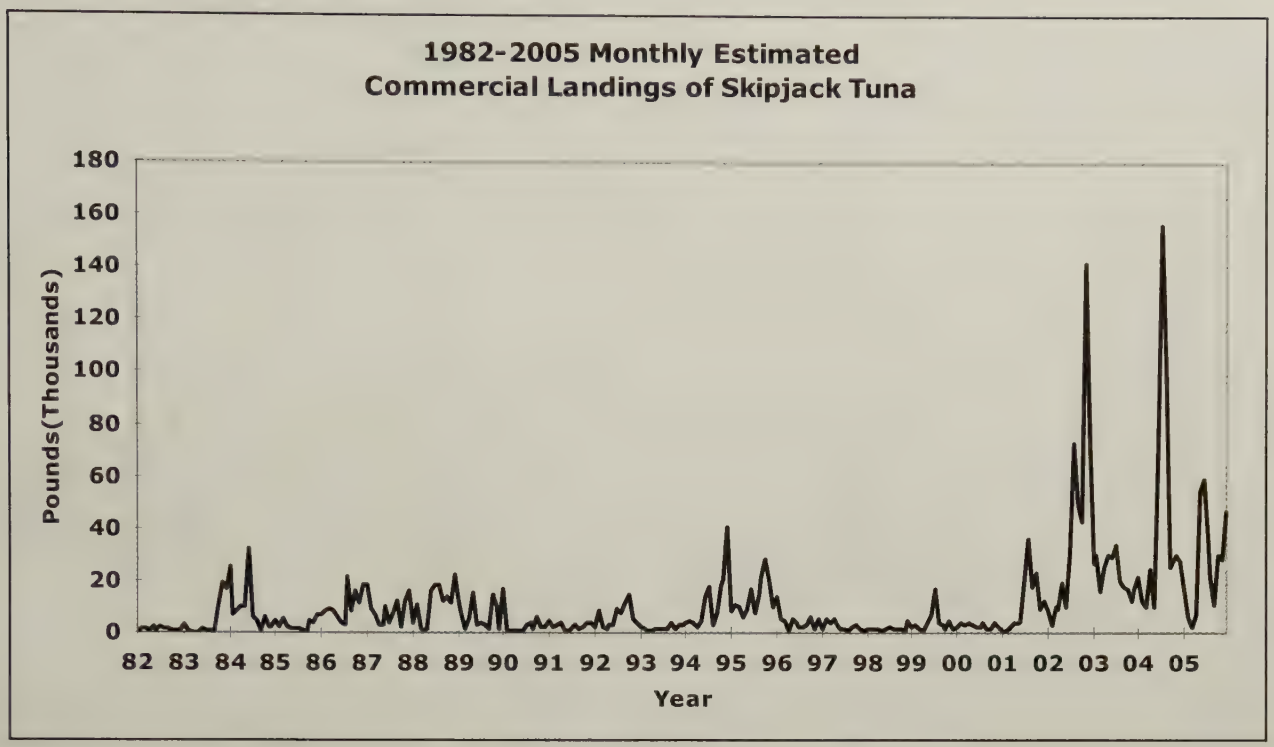


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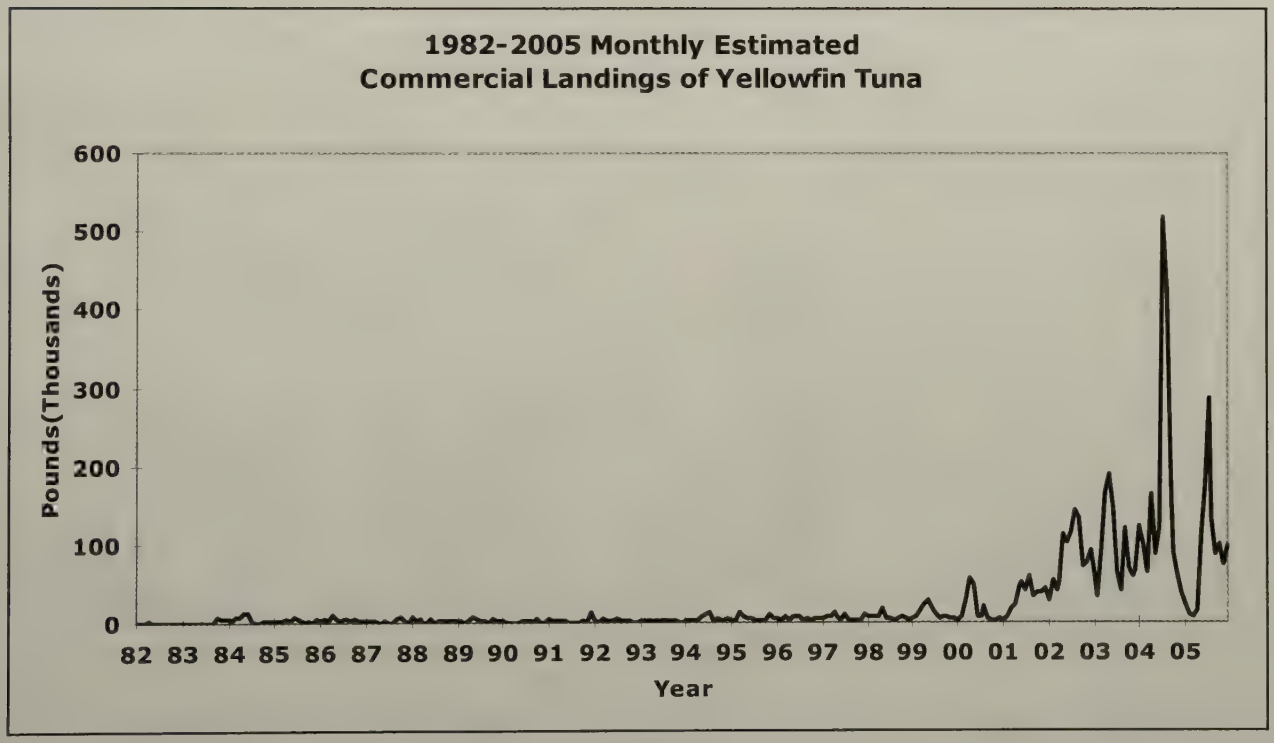


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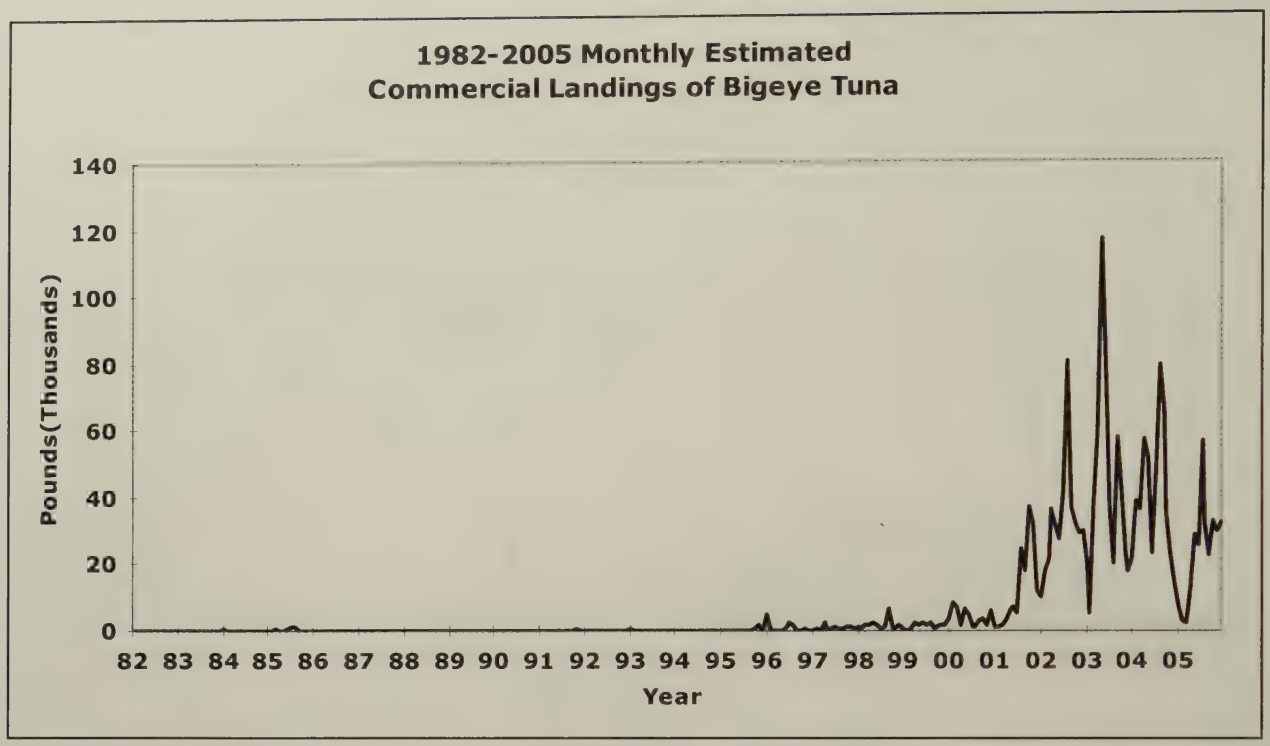


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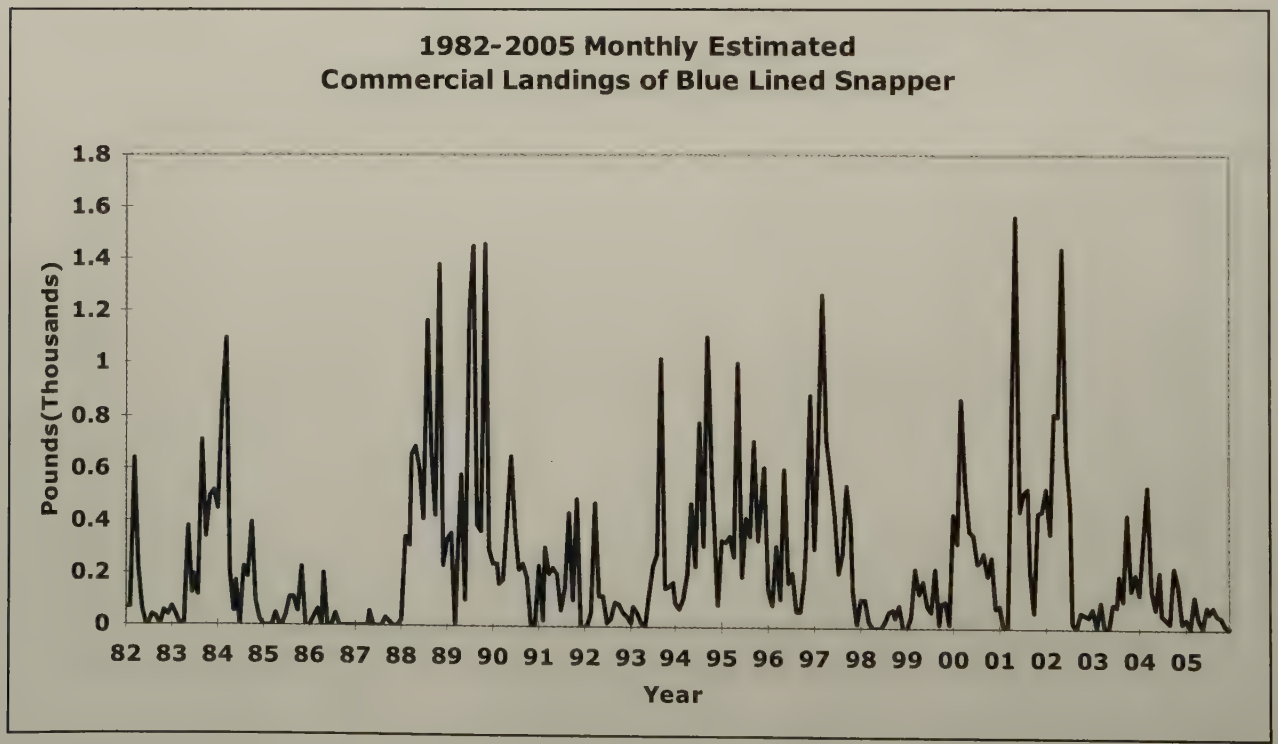


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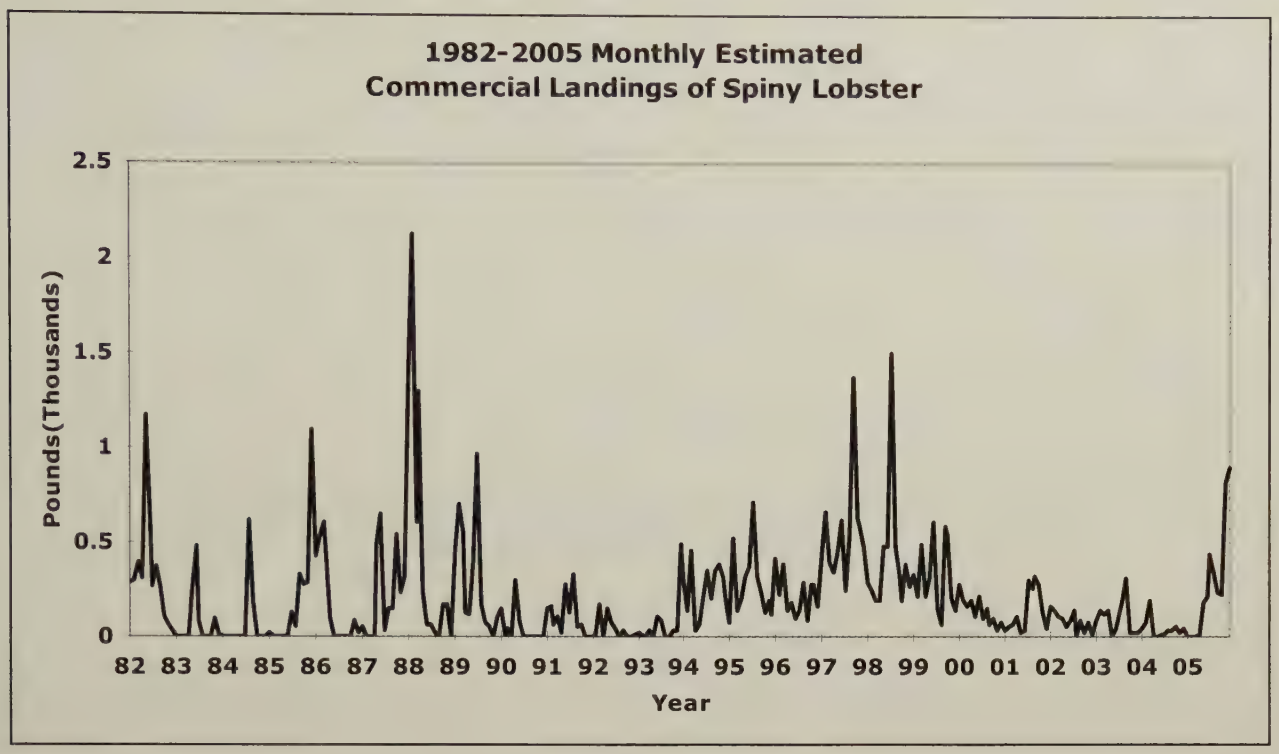


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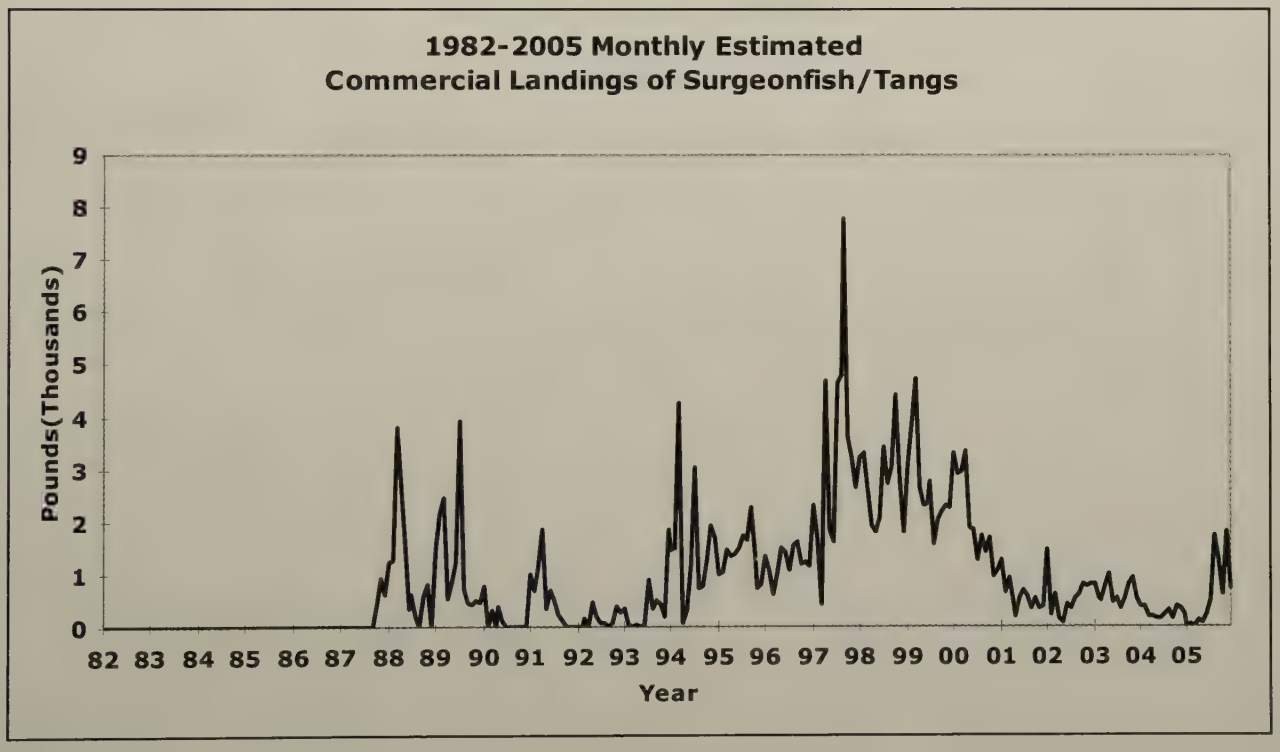


Figure A-4-10

# COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
# 2005 FISHERY STATISTICS

Compiled by

Division of Fish and Wildlife

and the

Western Pacific Fishery Information Network

July 2007

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# COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
# 2005 FISHERY STATISTICS

## INTRODUCTION

*Location*: 14° to 21°N latitude, 145°E longitude
*Main Islands*: Saipan, Rota, Tinian
*Population*: about 84,500; (*The World Factbook*, 2007)
*Economy*: tourism, agriculture, garment production

CNMI
Source: https://www.cia.gov/library/publications/the-world-factbook/maps/cq-map.gif>; *The World Factbook*

The chief domestic commercial fishery of the Commonwealth of the Northern Mariana Islands (CNMI) is a small boat, 1-day troll fishery, and most of the boats are 12- to 24-foot outboard-powered, runabout-type vessels. However, a few larger boats are used mainly for bottomfish fishing around the islands north of Saipan, and a small charter fleet also exists.

Trolling is the most common fishing method, but bottomfishing and reef fishing are also popular. Reef fish make up a significant portion of the total commercial catch and are an important component of the local diet. In recent years, several larger boats started fishing more intensively for bottomfish around the islands north of Saipan. While the vast majority of the domestic catch is consumed locally, there have been some intermittent exports to Guam, Hawaii, and Japan.

In 1982 WPacFIN significantly improved data collecting and processing systems by providing computer hardware, software, and training. Since then numerous system upgrades and replacements have been implemented to keep up with changing technologies and the increasing demands for improved fisheries statistics.

## DATA COLLECTING SYSTEM

The Division of Fish and Wildlife (DFW) has been collecting fishery statistics on the commercial fishing fleet of Saipan since the mid-1970s. With the assistance of the NMFS WPacFIN program, DFW also expanded its fisheries monitoring programs to include Rota and Tinian, the other two major inhabited islands in the CNMI.

DFW's principal method of collecting domestic commercial fisheries data is a dealer invoicing system, sometimes referred to as a "trip ticket" system. The DFW provides numbered two-part invoices to all purchasers of fresh fishery products (including hotels, restaurants, stores, fish markets, and roadside vendors). Dealers then complete an invoice each time they purchase fish directly from fishers; one copy goes to DFW and one copy goes to their records.

Some advantages of this data collection method are that it is relatively inexpensive to implement and maintain and is fairly easy to completely cover the commercial fisheries. DFW can also provide feedback to dealers and fishers to ensure data accuracy and continued cooperation.

There are some disadvantages: (1) dependency on non-DFW personnel to identify the catch and record the data; (2) restrictions on the types of data that can be collected; (3) required education and cooperation of all fish purchasers; and (4) limited recordings of fish actually sold to dealers. Therefore, a potentially important portion of the total landings is unrecorded.

Since 1982, DFW has tried to minimize these disadvantages in several ways: (1) maintain a close working relationship with dealers; (2) add new dealers to their list and educate them; and (3) implement a creel survey to help estimate total catch, including recreational and subsistence catch.

The current system collects data from dealers in Saipan, where DFW estimates more than 90% of all CNMI commercial landings are made. The DFW also estimates that the proportion of total commercial landings that have been recorded in the Saipan database since 1983 is about 90%. Previous volumes of FSWP reported only recorded landings, but in recent volumes the data have been adjusted to represent 100% coverage and are referenced as "Estimated Commercial Landings" in the tables and charts.

Information collected from the fishers includes the following:

- Date
- Buyer's Name (dealer)
- Seller's Name (fisherman)
- Species
- Weight (pounds)
- Price per Pound
- Value
- Invoice Number

These data elements are collected for all purchases of fishery products; however, species identification is frequently made only to a group level, especially for reef fish.

## DATA PROCESSING SYSTEM

At the beginning of each month, a DFW employee visits each of the dealers on Saipan to collect the previous month's invoices, to resolve problems, and to answer any questions the

dealers may have. The invoices are then returned to the office for an initial visual edit during the coding process and entered into the Commercial Purchase System database. After the records are entered, reports are generated to help verify that all data were entered correctly. On a quarterly basis, copies of the database are sent to the Pacific Islands Fisheries Science Center, where the data are transferred to the central computer for additional verification before generating summary reports. These reports and databases are then ready for use by qualified WPacFIN participants.

## DATA REPORTING SYSTEM

After all editing, adjustment, and quality control activities have been completed, monthly and annual summary reports by species are generated. Each monthly report contains a subtotal for the sum of all species for that month. Annual reports contain the total landings for each species and the total recorded landings for all species for the calendar year.

Please note that commercial landings data have been adjusted to reflect total coverage and are referenced as "Estimated Commercial Landings" in the charts and tables. Also, some of the charts in this volume are new or modified from earlier volumes.

To access the most up-to-date data and charts, please visit the WPacFIN Website at <http://www.pifsc.noaa.gov/wpacfin>.

The following species, species groups, and abbreviations are used in the tables and graphs of CNMI's data:

*Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

I. Pelagic Management Unit Species (PMUS)

Mahimahi (dolphin)
Marlin
Shortbill spearfish
Sailfish
Wahoo
Sharks

II. Bottomfish Management Unit Species (BMUS)

Jacks (unclassified, but excluding bigeye scad)
Amberjack
Bottomfish (unclassified)
Ehu (red snapper)
Gindai (flower snapper)
Grouper (unclassified)
Kalekale (pink snapper)
Lehi (silverjaw snapper)
Onaga (red or longtail snapper)
Opakapaka (pink snapper)
Uku (gray snapper)
Emperorfish

III. Billfish

Marlin (probably all blue marlin but could also include the rarely landed striped and black marlins)
Shortbill spearfish
Sailfish

IV. Tunas

Tunas (unclassified)
Skipjack tuna
Yellowfin tuna
Dogtooth tuna

V. Other Tuna

The above tunas excluding skipjack and yellowfin tunas

VI. Fisheries Categories

A. Pelagics

All PMUS and tuna species plus the following:
Troll fish (unclassified)
Barracuda
Rainbow runner

B. Bottomfish

Same as BMUS

C. Reef Fish

Reef fish (unclassified)
Giant wrasse
Rabbitfish (hitting, hitting feda, menahac, and sesjun)
Rudderfish
Squirrelfish
Parrotfish
Snapper
Surgeonfish
Unicornfish
Goatfish

D. Other

Miscellaneous
Mullet
Milkfish
Crabs (unclassified)
Lobster
Octopus
Turtle
Bigeye scad
Eels
Invertebrates (unclassified)
Coconut crab
Shrimp
Squid
Seaweeds
Imported

## Table B-1
## 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 8,680 | $20,455 | $2.36 |
| Jacks (misc) | 1,547 | $3,765 | $2.43 |
| Mullet | 46 | $112 | $2.44 |
| Blackjack | 1,104 | $2,887 | $2.62 |
| Giant trevally | 66 | $164 | $2.50 |
| Bottomfish | 20,530 | $53,500 | $2.61 |
| Sickle pomfret | 208 | $515 | $2.48 |
| Ehu (red snapper) | 1,040 | $3,383 | $3.25 |
| Gindai (flower snapper) | 1,961 | $6,432 | $3.28 |
| Grouper (misc) | 2,477 | $7,726 | $3.12 |
| Kalekale (yellowtail) | 2,927 | $7,358 | $2.51 |
| Onaga (red snapper) | 2,063 | $7,891 | $3.83 |
| Opakapaka (pink snapper) | 1,034 | $2,984 | $2.88 |
| Jobfish (uku) | 866 | $1,884 | $2.18 |
| Silvermouth (deep lehi) | 1,016 | $2,794 | $2.75 |
| Amberjack | 323 | $857 | $2.65 |
| Giant coral trout | 5 | $10 | $2.00 |
| Blueline snapper | 596 | $1,529 | $2.57 |
| Reef fish | 55,584 | $141,391 | $2.54 |
| Wrasse | 210 | $449 | $2.14 |
| Rabbitfish | 2,110 | $6,774 | $3.21 |
| Emperor (mafute/misc) | 17,766 | $46,657 | $2.63 |
| Parrotfish (misc) | 7,293 | $21,892 | $3.00 |
| Surgeonfish (misc) | 3,212 | $6,464 | $2.01 |
| Orangespine unicornfish | 50 | $125 | $2.50 |
| Unicornfish (misc) | 146 | $361 | $2.46 |
| Goatfish (misc) | 123 | $340 | $2.76 |
| Troll fish (misc) | 49 | $93 | $1.90 |
| Barracuda | 10 | $25 | $2.50 |
| Mahimahi | 21,128 | $41,551 | $1.97 |
| Blue marlin | 1,253 | $1,730 | $1.38 |
| Sailfish | 30 | $45 | $1.50 |
| Rainbow runner | 8,856 | $16,937 | $1.91 |
| Wahoo | 2,631 | $5,470 | $2.08 |
| Skipjack tuna | 204,768 | $361,930 | $1.77 |
| Dogtooth tuna | 6,130 | $12,095 | $1.97 |
| Yellowfin tuna | 40,868 | $80,322 | $1.97 |
| Saba (kawakawa) | 6,648 | $12,609 | $1.90 |
| Spiny lobster | 4,408 | $22,091 | $5.01 |
| Octopus | 2,903 | $6,149 | $2.12 |
| Shrimp (saltwater) | 126 | $1,310 | $10.44 |
| TOTAL | 432,790 | $911,059 | $2.11 |

**Table B-2**
**January 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 1,923 | $4,404 | $2.29 |
| Jacks (misc) | 239 | $550 | $2.31 |
| Blackjack | 42 | $84 | $2.00 |
| Bottom fish | 3,187 | $7,760 | $2.44 |
| Ehu (red snapper) | 4 | $7 | $2.00 |
| Gindai (flower snapper) | 7 | $14 | $2.00 |
| Grouper (misc) | 143 | $409 | $2.86 |
| Kalekale (yellowtail) | 108 | $216 | $2.00 |
| Onaga (red snapper) | 260 | $1,170 | $4.50 |
| Jobfish (uku) | 151 | $317 | $2.10 |
| Blueline snapper | 11 | $23 | $2.00 |
| Reef fish | 3,586 | $8,932 | $2.49 |
| Rabbitfish | 157 | $507 | $3.23 |
| Emperor (mafute/misc) | 1,350 | $3,456 | $2.56 |
| Parrotfish (misc) | 178 | $657 | $3.69 |
| Mahimahi | 3,226 | $6,515 | $2.02 |
| Sailfish | 30 | $45 | $1.50 |
| Rainbow runner | 698 | $1,361 | $1.95 |
| Wahoo | 146 | $302 | $2.07 |
| Skipjack tuna | 9,870 | $21,373 | $2.17 |
| Dogtooth tuna | 1,390 | $2,348 | $1.69 |
| Yellowfin tuna | 2,869 | $5,867 | $2.04 |
| Saba (kawakawa) | 264 | $501 | $1.90 |
| Spiny lobster | 64 | $450 | $7.00 |
| Octopus | 317 | $757 | $2.39 |
| Shrimp (saltwater) | 61 | $724 | $11.8 |
| TOTAL | 30,280 | $68,751 | $2.27 |

## Table B-3
## February 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 450 | $900 | $2.00 |
| Jacks (misc) | 29 | $91 | $3.15 |
| Blackjack | 100 | $229 | $2.29 |
| Bottomfish | 2,340 | $5,852 | $2.50 |
| Sickle pomfret | 41 | $102 | $2.50 |
| Ehu (red snapper) | 57 | $171 | $3.00 |
| Gindai (flower snapper) | 39 | $118 | $3.00 |
| Grouper (misc) | 137 | $412 | $3.01 |
| Kalekale (yellowtail) | 87 | $226 | $2.60 |
| Onaga (red snapper) | 137 | $549 | $4.00 |
| Opakapaka (pink snapper) | 3 | $6 | $2.00 |
| Jobfish (uku) | 14 | $34 | $2.40 |
| Amberjack | 21 | $62 | $3.00 |
| Giant coral trout | 5 | $10 | $2.00 |
| Reef fish | 3,245 | $7,744 | $2.39 |
| Rabbitfish | 131 | $425 | $3.25 |
| Emperor (mafute/misc) | 1,649 | $4,322 | $2.62 |
| Parrotfish (misc) | 141 | $477 | $3.39 |
| Mahimahi | 5,423 | $10,864 | $2.00 |
| Rainbow runner | 718 | $1,368 | $1.90 |
| Wahoo | 521 | $1,259 | $2.42 |
| Skipjack tuna | 10,043 | $20,483 | $2.04 |
| Dogtooth tuna | 506 | $972 | $1.92 |
| Yellowfin tuna | 2,452 | $4,681 | $1.91 |
| Saba (kawakawa) | 154 | $309 | $2.00 |
| Spiny lobster | 50 | $333 | $6.66 |
| Octopus | 141 | $314 | $2.22 |
| Shrimp (saltwater) | 64 | $586 | $9.14 |
| TOTAL | 28,697 | $62,899 | $2.19 |

## Table B-4
## March 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 200 | $433 | $2.17 |
| Jacks (misc) | 43 | $107 | $2.50 |
| Blackjack | 139 | $362 | $2.60 |
| Bottom fish | 1,834 | $5,163 | $2.81 |
| Sickle pomfret | 18 | $45 | $2.50 |
| Gindai (flower snapper) | 53 | $136 | $2.59 |
| Grouper (misc) | 159 | $472 | $2.97 |
| Kalekale (yellowtail) | 161 | $410 | $2.55 |
| Onaga (red snapper) | 17 | $77 | $4.50 |
| Opakapaka (pink snapper) | 46 | $126 | $2.75 |
| Jobfish (uku) | 129 | $321 | $2.50 |
| Amberjack | 34 | $92 | $2.75 |
| Blueline snapper | 51 | $132 | $2.61 |
| Reef fish | 3,413 | $9,189 | $2.69 |
| Wrasse | 36 | $89 | $2.50 |
| Rabbitfish | 131 | $427 | $3.25 |
| Emperor (mafute/misc) | 1,693 | $4,352 | $2.57 |
| Parrotfish (misc) | 537 | $1,603 | $2.99 |
| Surgeonfish (misc) | 69 | $137 | $2.00 |
| Mahimahi | 5,463 | $10,351 | $1.89 |
| Blue marlin | 200 | $500 | $2.50 |
| Rainbow runner | 488 | $980 | $2.01 |
| Wahoo | 420 | $856 | $2.04 |
| Skipjack tuna | 21,350 | $39,821 | $1.87 |
| Dogtooth tuna | 761 | $2,149 | $2.82 |
| Yellowfin tuna | 3,553 | $6,940 | $1.95 |
| Saba (kawakawa) | 120 | $240 | $2.00 |
| Spiny lobster | 179 | $1,013 | $5.67 |
| Octopus | 96 | $223 | $2.32 |
| TOTAL | 41,390 | $86,747 | $2.10 |

**Table B-5**
**April 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 71 | $143 | $2.00 |
| Jacks (misc) | 7 | $18 | $2.50 |
| Blackjack | 226 | $574 | $2.54 |
| Bottomfish | 268 | $729 | $2.72 |
| Sickle pomfret | 21 | $54 | $2.50 |
| Gindai (flower snapper) | 211 | $793 | $3.75 |
| Grouper (misc) | 70 | $210 | $3.00 |
| Kalekale (yellowtail) | 49 | $134 | $2.75 |
| Onaga (red snapper) | 30 | $120 | $4.00 |
| Jobfish (uku) | 4 | $9 | $2.00 |
| Blueline snapper | 71 | $196 | $2.75 |
| Reef fish | 3,127 | $8,242 | $2.64 |
| Rabbitfish | 64 | $198 | $3.11 |
| Emperor (mafute/misc) | 1,852 | $5,282 | $2.85 |
| Parrotfish (misc) | 502 | $1,447 | $2.88 |
| Surgeonfish (misc) | 194 | $409 | $2.10 |
| Goatfish (misc) | 11 | $27 | $2.50 |
| Mahimahi | 3,527 | $6,658 | $1.89 |
| Blue marlin | 106 | $106 | $1.00 |
| Rainbow runner | 435 | $797 | $1.83 |
| Wahoo | 314 | $654 | $2.08 |
| Skipjack tuna | 22,435 | $36,580 | $1.63 |
| Dogtooth tuna | 594 | $1,033 | $1.74 |
| Yellowfin tuna | 3,575 | $7,105 | $1.99 |
| Saba (kawakawa) | 153 | $306 | $2.00 |
| Spiny lobster | 286 | $1,432 | $5.00 |
| Octopus | 91 | $203 | $2.23 |
| TOTAL | 38,295 | $73,456 | $1.92 |

## Table B-6
## May 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 33 | $66 | $2.00 |
| Jacks (misc) | 16 | $41 | $2.50 |
| Blackjack | 6 | $12 | $2.00 |
| Giant trevally | 66 | $164 | $2.50 |
| Bottomfish | 2,401 | $6,527 | $2.72 |
| Ehu (red snapper) | 211 | $736 | $3.48 |
| Gindai (flower snapper) | 729 | $2,595 | $3.56 |
| Grouper (misc) | 184 | $645 | $3.50 |
| Kalekale (yellowtail) | 649 | $1,742 | $2.68 |
| Onaga (red snapper) | 293 | $1,051 | $3.59 |
| Opakapaka (pink snapper) | 440 | $1,293 | $2.94 |
| Silvermouth (deep lehi) | 84 | $253 | $3.00 |
| Reef fish | 3,353 | $9,040 | $2.70 |
| Wrasse | 46 | $103 | $2.25 |
| Rabbitfish | 31 | $101 | $3.26 |
| Emperor (mafute/misc) | 1,664 | $4,937 | $2.97 |
| Parrotfish (misc) | 789 | $2,158 | $2.73 |
| Surgeonfish (misc) | 21 | $32 | $1.50 |
| Unicornfish (misc) | 54 | $136 | $2.50 |
| Mahimahi | 529 | $975 | $1.84 |
| Blue marlin | 86 | $86 | $1.00 |
| Rainbow runner | 102 | $182 | $1.78 |
| Wahoo | 99 | $166 | $1.67 |
| Skipjack tuna | 22,184 | $35,586 | $1.60 |
| Dogtooth tuna | 257 | $536 | $2.09 |
| Yellowfin tuna | 2,113 | $4,124 | $1.95 |
| Spiny lobster | 829 | $4,447 | $5.36 |
| Octopus | 163 | $378 | $2.31 |
| TOTAL | 37,434 | $78,110 | $2.09 |

**Table B-7**
**June 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 873 | $2,597 | $2.98 |
| Jacks (misc) | 9 | $21 | $2.50 |
| Bottomfish | 1,649 | $4,281 | $2.60 |
| Sickle pomfret | 42 | $116 | $2.75 |
| Ehu (red snapper) | 176 | $595 | $3.37 |
| Gindai (flower snap) | 164 | $544 | $3.31 |
| Grouper (misc) | 310 | $930 | $3.00 |
| Kalekale (yellowtail) | 286 | $732 | $2.55 |
| Onaga (red snapper) | 111 | $390 | $3.50 |
| Amberjack | 25 | $45 | $1.75 |
| Reef fish | 3,991 | $10,604 | $2.66 |
| Rabbitfish | 86 | $280 | $3.25 |
| Emperor (mafute/misc) | 531 | $1,462 | $2.75 |
| Parrotfish (misc) | 384 | $1,158 | $3.02 |
| Surgeonfish (misc) | 251 | $503 | $2.00 |
| Unicornfish (misc) | 51 | $129 | $2.50 |
| Mahimahi | 209 | $488 | $2.34 |
| Blue marlin | 154 | $154 | $1.00 |
| Rainbow runner | 930 | $1,847 | $1.99 |
| Wahoo | 24 | $41 | $1.75 |
| Skipjack tuna | 21,029 | $31,882 | $1.52 |
| Dogtooth tuna | 99 | $205 | $2.08 |
| Yellowfin tuna | 2,226 | $4,259 | $1.91 |
| Saba (kawakawa) | 101 | $189 | $1.86 |
| Spiny lobster | 186 | $926 | $4.99 |
| Octopus | 180 | $386 | $2.15 |
| TOTAL | 34,078 | $64,763 | $1.90 |

## Table B-8
## July 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 65 | $188 | $2.89 |
| Jacks (misc) | 309 | $744 | $2.41 |
| Mullet | 5 | $11 | $2.00 |
| Blackjack | 304 | $835 | $2.75 |
| Bottomfish | 2,046 | $5,247 | $2.57 |
| Sickle pomfret | 16 | $41 | $2.50 |
| Ehu (red snapper) | 93 | $325 | $3.50 |
| Gindai (flower snapper) | 206 | $669 | $3.24 |
| Grouper (misc) | 641 | $2,126 | $3.32 |
| Kalekale (yellowtail) | 591 | $1,551 | $2.62 |
| Opakapaka (pink snapper) | 241 | $665 | $2.76 |
| Jobfish (uku) | 63 | $158 | $2.52 |
| Silvermouth (deep lehi) | 169 | $349 | $2.07 |
| Amberjack | 30 | $90 | $3.00 |
| Blueline snapper | 109 | $296 | $2.70 |
| Reef fish | 7,012 | $17,713 | $2.53 |
| Rabbitfish | 146 | $474 | $3.24 |
| Emperor (mafute/misc) | 712 | $1,743 | $2.45 |
| Parrotfish (misc) | 1,941 | $5,833 | $3.00 |
| Surgeonfish (misc) | 316 | $633 | $2.00 |
| Unicornfish (misc) | 7 | $13 | $1.75 |
| Goatfish (misc) | 7 | $21 | $3.00 |
| Troll fish (misc) | 29 | $57 | $2.00 |
| Barracuda | 10 | $25 | $2.50 |
| Mahimahi | 106 | $196 | $1.84 |
| Rainbow runner | 1,329 | $2,376 | $1.79 |
| Wahoo | 99 | $194 | $1.96 |
| Skipjack tuna | 22,120 | $33,478 | $1.51 |
| Dogtooth tuna | 357 | $720 | $2.01 |
| Yellowfin tuna | 3,414 | $6,539 | $1.92 |
| Saba (kawakawa) | 144 | $216 | $1.50 |
| Spiny lobster | 885 | $4,423 | $5.00 |
| Octopus | 237 | $474 | $2.00 |
| TOTAL | 43,760 | $88,422 | $2.02 |

## Table B-9
## August 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 39 | $116 | $3.00 |
| Jacks (misc) | 307 | $798 | $2.60 |
| Mullet | 26 | $66 | $2.50 |
| Blackjack | 20 | $60 | $3.00 |
| Bottomfish | 1,550 | $4,124 | $2.66 |
| Ehu (red snapper) | 96 | $317 | $3.29 |
| Gindai (flower snapper) | 39 | $112 | $2.88 |
| Grouper (misc) | 66 | $201 | $3.06 |
| Kalekale (yellowtail) | 51 | $141 | $2.75 |
| Onaga (red snapper) | 29 | $107 | $3.75 |
| Jobfish (uku) | 134 | $267 | $2.00 |
| Silvermouth (deep lehi) | 24 | $91 | $3.75 |
| Blueline snapper | 125 | $313 | $2.50 |
| Reef fish | 5,252 | $13,129 | $2.50 |
| Rabbitfish | 298 | $909 | $3.05 |
| Emperor (mafute/misc) | 691 | $1,777 | $2.57 |
| Parrotfish (misc) | 1,169 | $3,536 | $3.02 |
| Surgeonfish (misc) | 453 | $909 | $2.00 |
| Orangespine unicornfish | 50 | $125 | $2.50 |
| Unicornfish (misc) | 31 | $79 | $2.50 |
| Goatfish (misc) | 60 | $166 | $2.75 |
| Mahimahi | 356 | $625 | $1.76 |
| Rainbow runner | 1,303 | $2,354 | $1.81 |
| Wahoo | 44 | $93 | $2.14 |
| Skipjack tuna | 19,416 | $31,543 | $1.62 |
| Dogtooth tuna | 96 | $171 | $1.78 |
| Yellowfin tuna | 5,576 | $10,165 | $1.82 |
| Saba (kawakawa) | 76 | $141 | $1.86 |
| Spiny lobster | 807 | $4,001 | $4.96 |
| Octopus | 549 | $1,117 | $2.03 |
| TOTAL | 38,733 | $77,552 | $2.00 |

## Table B-10
## September 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 1,735 | $4,532 | $2.61 |
| Jacks (misc) | 125 | $316 | $2.52 |
| Mullet | 14 | $35 | $2.50 |
| Bottom fish | 1,138 | $2,946 | $2.59 |
| Ehu (red snapper) | 115 | $351 | $3.05 |
| Gindai (flower snapper) | 170 | $434 | $2.55 |
| Grouper (misc) | 16 | $47 | $3.00 |
| Kalekale (yellowtail) | 328 | $796 | $2.42 |
| Onaga (red snapper) | 423 | $1,538 | $3.63 |
| Opakapaka (pink snapper) | 77 | $205 | $2.67 |
| Jobfish (uku) | 23 | $54 | $2.38 |
| Silvermouth (deep lehi) | 230 | $671 | $2.92 |
| Amberjack | 113 | $313 | $2.78 |
| Reef fish | 6,592 | $16,522 | $2.51 |
| Rabbitfish | 125 | $396 | $3.18 |
| Emperor (mafute/misc) | 1,510 | $3,805 | $2.52 |
| Parrotfish (misc) | 696 | $2,189 | $3.15 |
| Surgeonfish (misc) | 383 | $765 | $2.00 |
| Goatfish (misc) | 28 | $75 | $2.67 |
| Mahimahi | 238 | $501 | $2.10 |
| Rainbow runner | 1,067 | $2,345 | $2.20 |
| Wahoo | 196 | $377 | $1.93 |
| Skipjack tuna | 17,085 | $32,790 | $1.92 |
| Dogtooth tuna | 498 | $904 | $1.82 |
| Yellowfin tuna | 4,459 | $9,301 | $2.09 |
| Saba (kawakawa) | 672 | $1,216 | $1.81 |
| Spiny lobster | 573 | $2,549 | $4.44 |
| Octopus | 371 | $774 | $2.09 |
| TOTAL | 38,999 | $86,746 | $2.22 |

## Table B-11
## October 2005 Estimated Commercial Landings

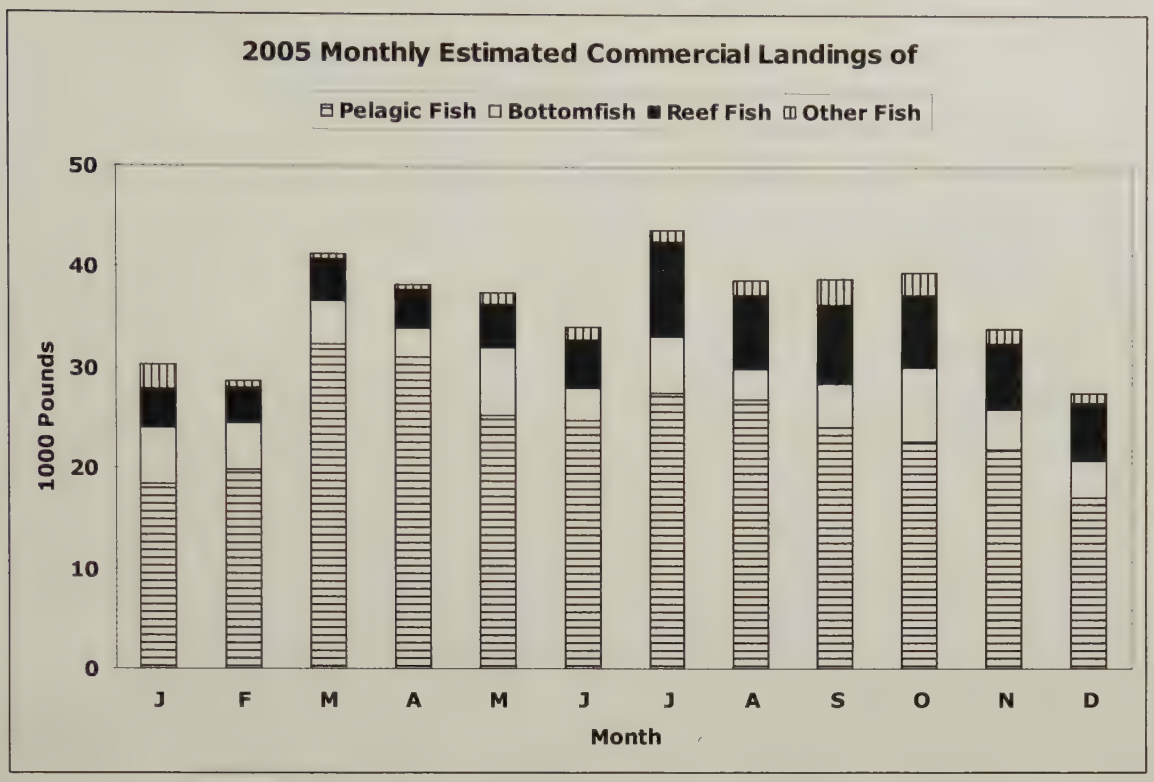
| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 1,540 | $3,383 | $2.20 |
| Jacks (misc) | 184 | $447 | $2.44 |
| Blackjack | 140 | $350 | $2.50 |
| Bottom fish | 1,852 | $4,827 | $2.61 |
| Sickle pomfret | 69 | $158 | $2.28 |
| Ehu (red snapper) | 150 | $430 | $2.87 |
| Gindai (flower snapper) | 276 | $820 | $2.96 |
| Grouper (misc) | 316 | $935 | $2.95 |
| Kalekale (yellowtail) | 513 | $1,185 | $2.31 |
| Onaga (red snapper) | 472 | $1,784 | $3.78 |
| Opakapaka (pink snapper) | 101 | $387 | $3.84 |
| Jobfish (uku) | 31 | $56 | $1.81 |
| Silvermouth (deep lehi) | 341 | $1,043 | $3.06 |
| Amberjack | 82 | $199 | $2.42 |
| Blueline snapper | 131 | $329 | $2.50 |
| Reef fish | 6,156 | $15,458 | $2.51 |
| Wrasse | 129 | $257 | $2.00 |
| Rabbitfish | 203 | $659 | $3.25 |
| Emperor (mafute/misc) | 2,717 | $6,978 | $2.57 |
| Parrotfish (misc) | 396 | $1,171 | $2.95 |
| Surgeonfish (misc) | 396 | $793 | $2.00 |
| Unicornfish (misc) | 2 | $5 | $2.50 |
| Goatfish (misc) | 11 | $32 | $3.00 |
| Troll fish (misc) | 21 | $36 | $1.75 |
| Mahimahi | 705 | $1,409 | $2.00 |
| Rainbow runner | 809 | $1,541 | $1.90 |
| Wahoo | 377 | $759 | $2.01 |
| Skipjack tuna | 14,903 | $30,501 | $2.05 |
| Dogtooth tuna | 757 | $1,440 | $1.90 |
| Yellowfin tuna | 2,871 | $5,740 | $2.00 |
| Saba (kawakawa) | 2,235 | $3,956 | $1.77 |
| Spiny lobster | 278 | $1,202 | $4.33 |
| Octopus | 416 | $831 | $2.00 |
| TOTAL | 39,581 | $89,100 | $2.25 |

## Table B-12
## November 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 1,111 | $2,299 | $2.07 |
| Jacks (misc) | 109 | $280 | $2.57 |
| Bottomfish | 1,431 | $3,833 | $2.68 |
| Ehu (red snapper) | 40 | $130 | $3.25 |
| Grouper (misc) | 393 | $1,231 | $3.13 |
| Kalekale (yellowtail) | 12 | $30 | $2.50 |
| Onaga (red snapper) | 206 | $772 | $3.75 |
| Opakapaka (pink snapper) | 14 | $39 | $2.75 |
| Jobfish (uku) | 117 | $204 | $1.74 |
| Silvermouth (deep lehi) | 56 | $167 | $3.00 |
| Amberjack | 19 | $56 | $3.00 |
| Reef fish | 5,450 | $13,786 | $2.53 |
| Rabbitfish | 368 | $1,193 | $3.24 |
| Emperor (mafute/misc) | 1,683 | $4,303 | $2.56 |
| Parrotfish (misc) | 330 | $988 | $2.99 |
| Surgeonfish (misc) | 400 | $828 | $2.07 |
| Goatfish (misc) | 6 | $19 | $3.00 |
| Mahimahi | 491 | $1,059 | $2.16 |
| Rainbow runner | 577 | $1,022 | $1.77 |
| Wahoo | 267 | $541 | $2.02 |
| Skipjack tuna | 16,362 | $31,193 | $1.91 |
| Dogtooth tuna | 350 | $661 | $1.89 |
| Yellowfin tuna | 3,699 | $6,698 | $1.81 |
| Saba (kawakawa) | 181 | $341 | $1.88 |
| Spiny lobster | 73 | $327 | $4.47 |
| Octopus | 224 | $449 | $2.00 |
| TOTAL | 33,970 | $72,450 | $2.13 |

## Table B-13
## December 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad | 641 | $1,394 | $2.18 |
| Jacks (misc) | 171 | $351 | $2.05 |
| Blackjack | 127 | $381 | $3.00 |
| Bottom fish | 834 | $2,210 | $2.65 |
| Ehu (red snapper) | 97 | $321 | $3.30 |
| Gindai (flower snapper) | 65 | $197 | $3.03 |
| Grouper (misc) | 41 | $108 | $2.59 |
| Kalekale (yellowtail) | 90 | $196 | $2.17 |
| Onaga (red snapper) | 84 | $334 | $3.96 |
| Opakapaka (pink snapper) | 113 | $263 | $2.33 |
| Jobfish (uku) | 201 | $464 | $2.31 |
| Silvermouth (deep lehi) | 113 | $221 | $1.96 |
| Blueline snapper | 96 | $241 | $2.50 |
| Reef fish | 4,408 | $11,032 | $2.50 |
| Rabbitfish | 371 | $1,206 | $3.25 |
| Emperor (mafute/misc) | 1,714 | $4,242 | $2.48 |
| Parrotfish (misc) | 231 | $676 | $2.93 |
| Surgeonfish (misc) | 728 | $1,456 | $2.00 |
| Mahimahi | 857 | $1,909 | $2.23 |
| Blue marlin | 707 | $884 | $1.25 |
| Rainbow runner | 401 | $763 | $1.90 |
| Wahoo | 125 | $229 | $1.83 |
| Skipjack tuna | 7,971 | $16,702 | $2.10 |
| Dogtooth tuna | 465 | $957 | $2.06 |
| Yellowfin tuna | 4,059 | $8,902 | $2.19 |
| Saba (kawakawa) | 2,547 | $5,195 | $2.04 |
| Spiny lobster | 198 | $988 | $5.00 |
| Octopus | 117 | $242 | $2.06 |
| TOTAL | 27,572 | $62,062 | $2.25 |

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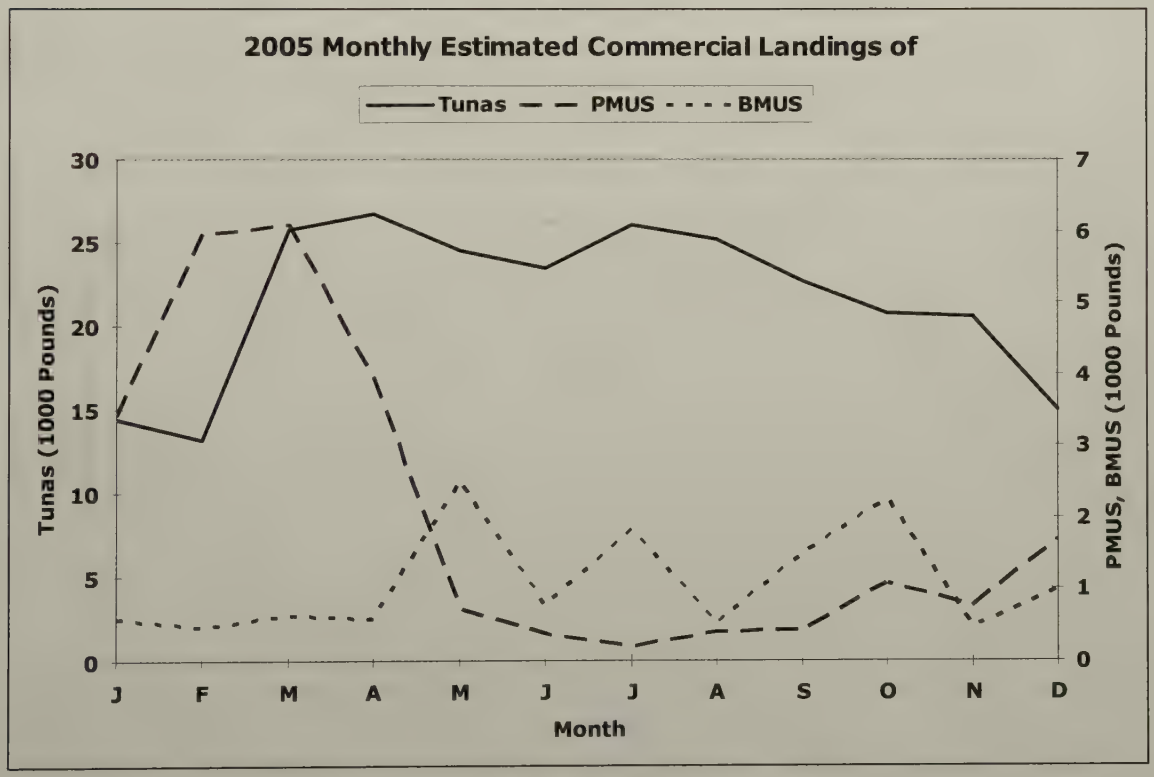


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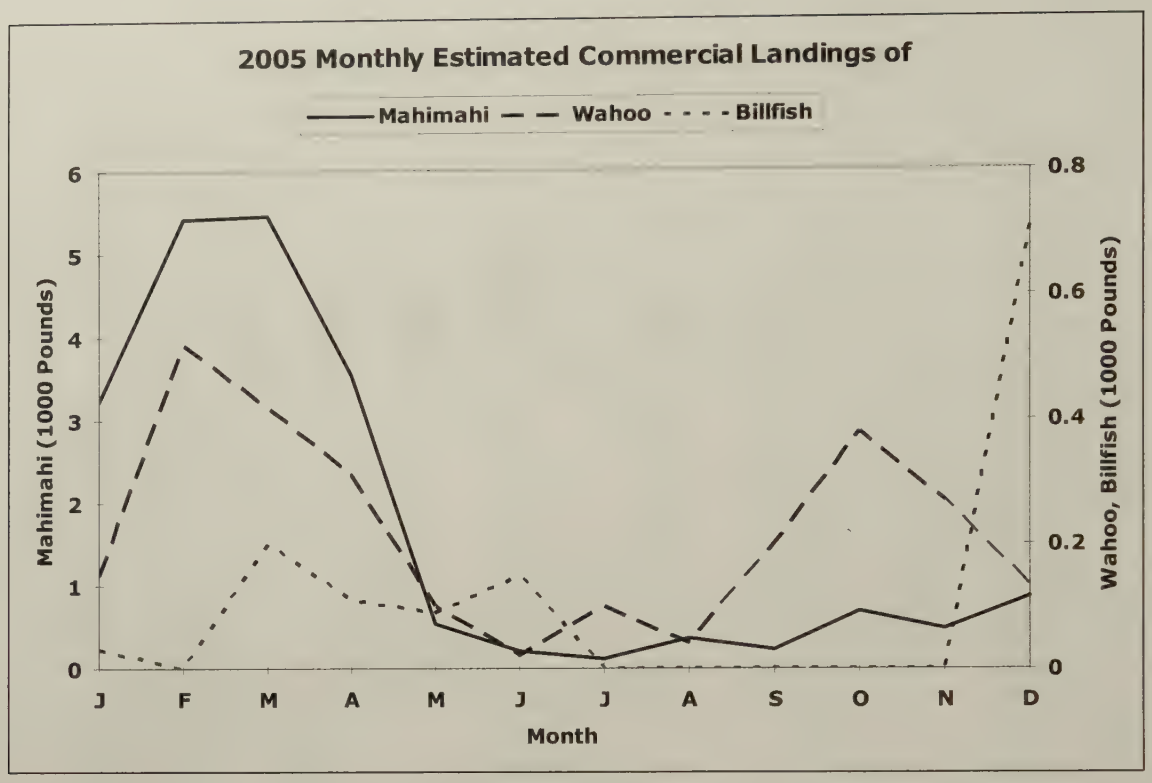


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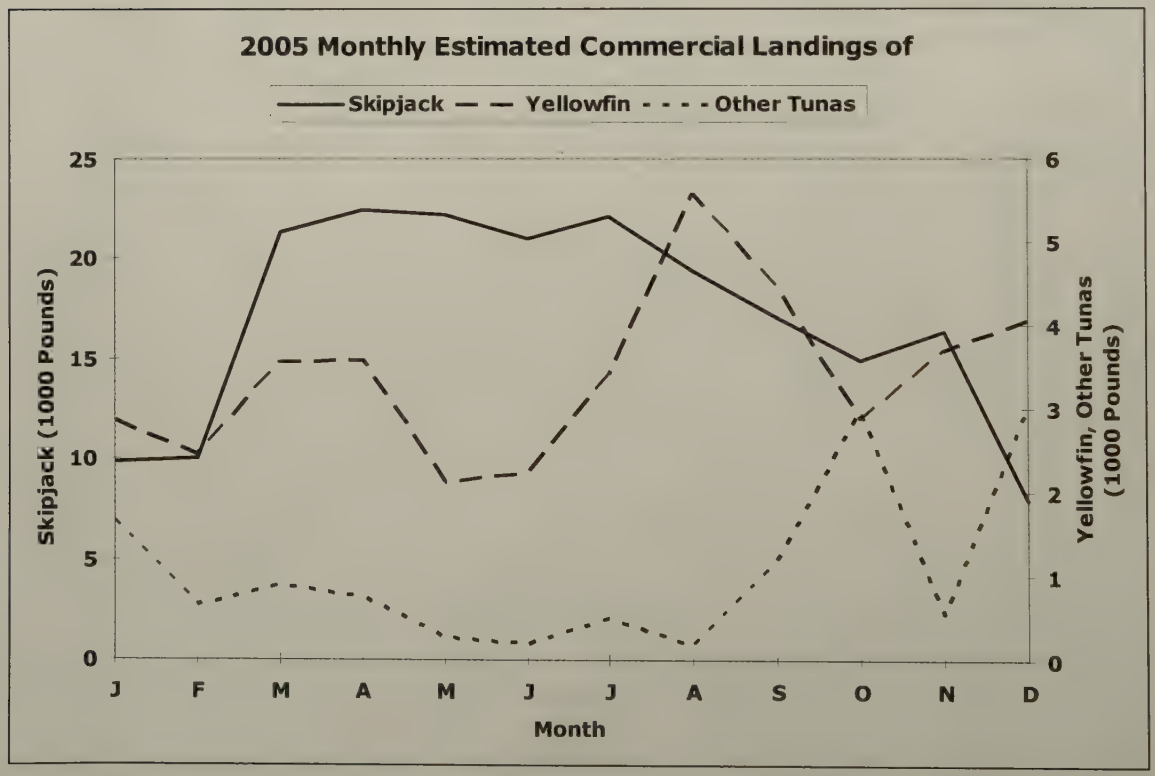


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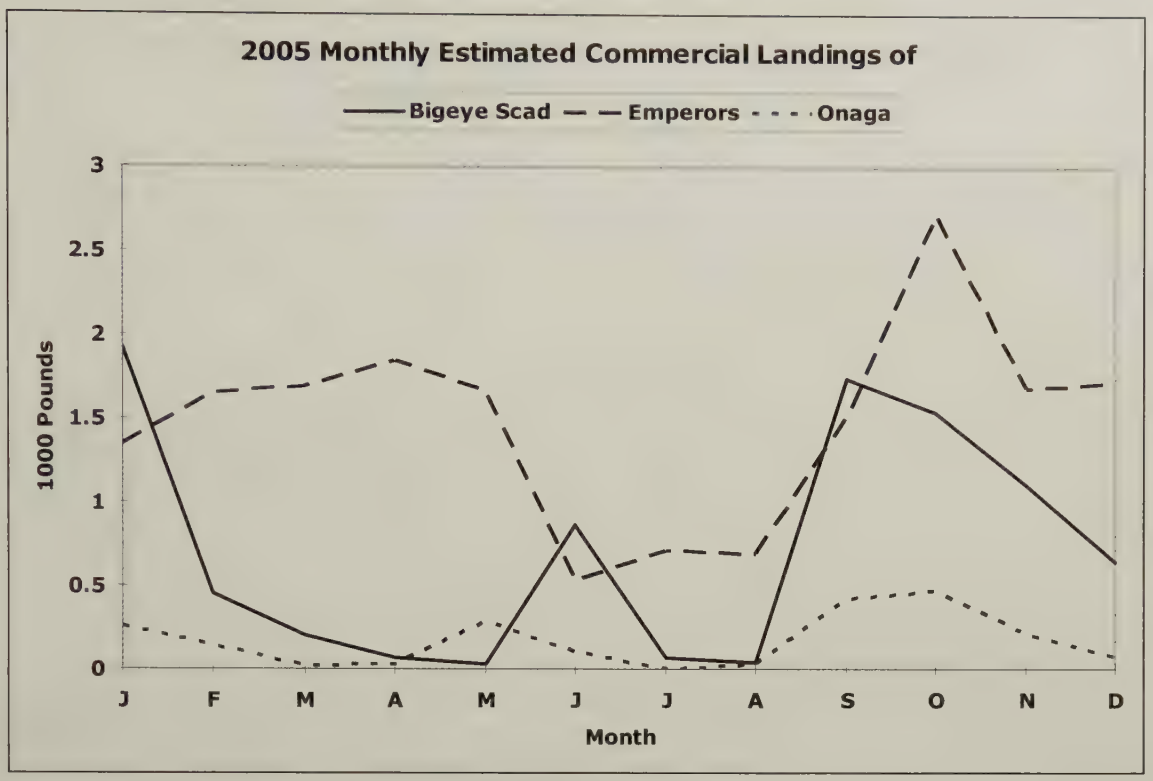


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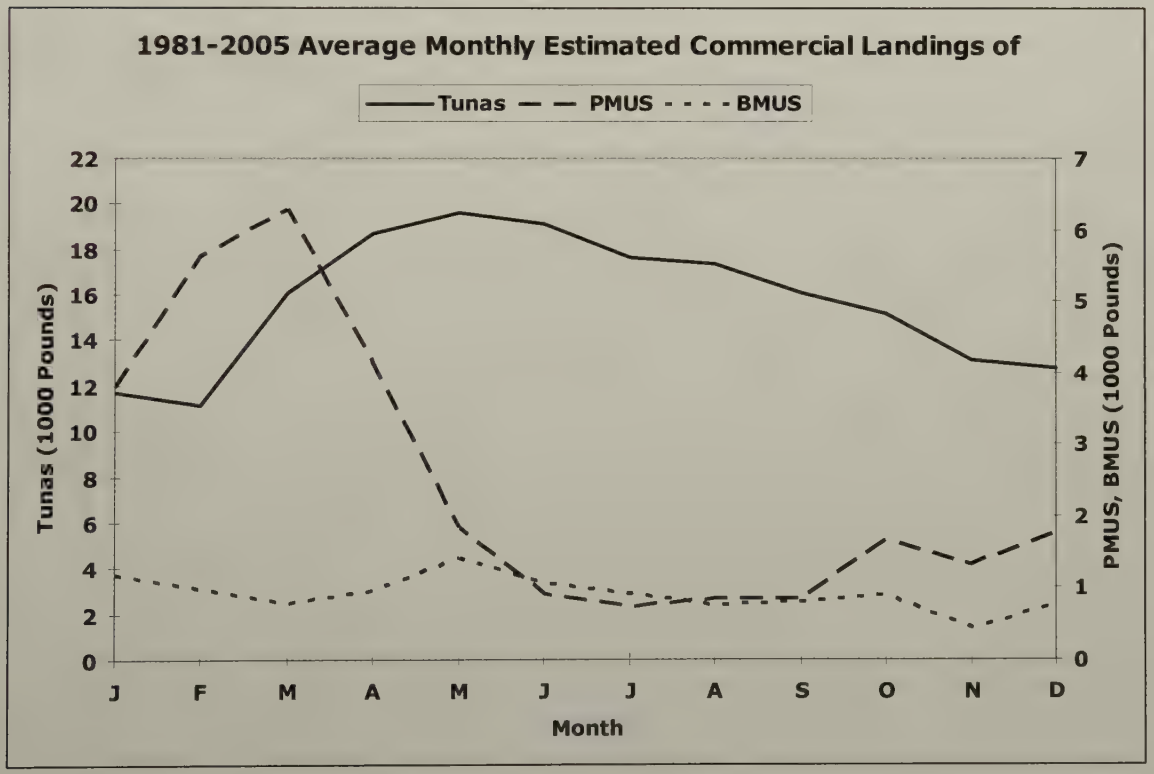


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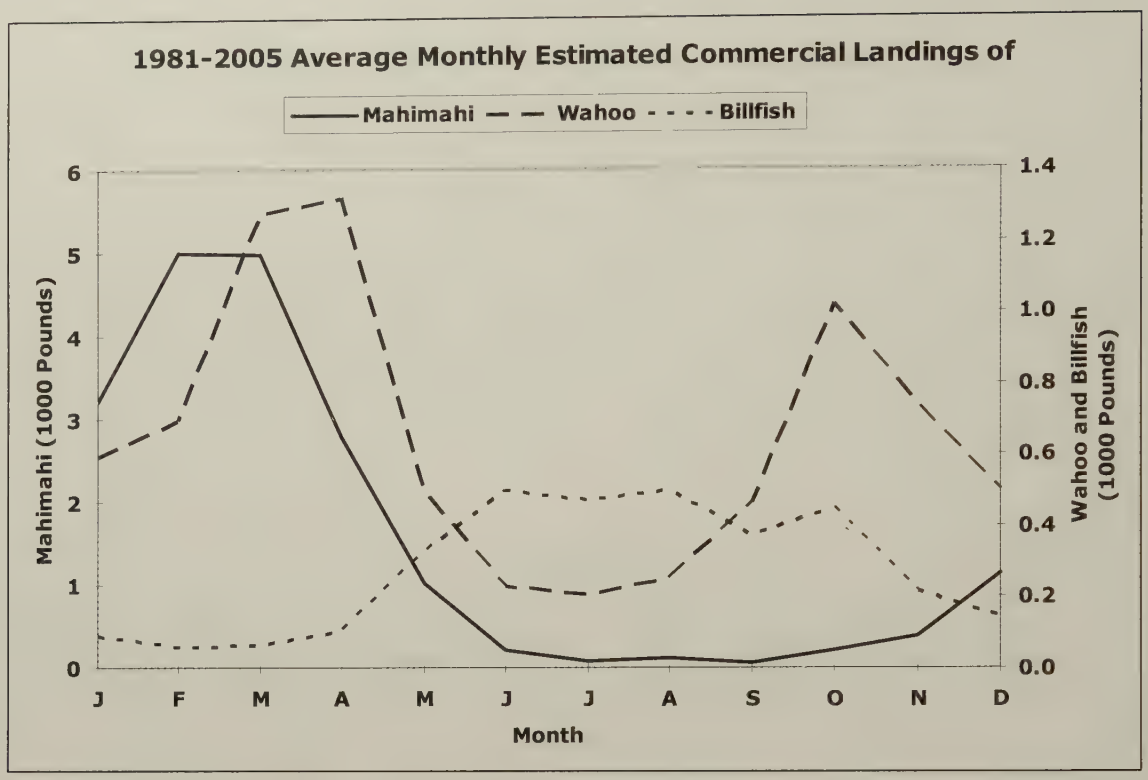


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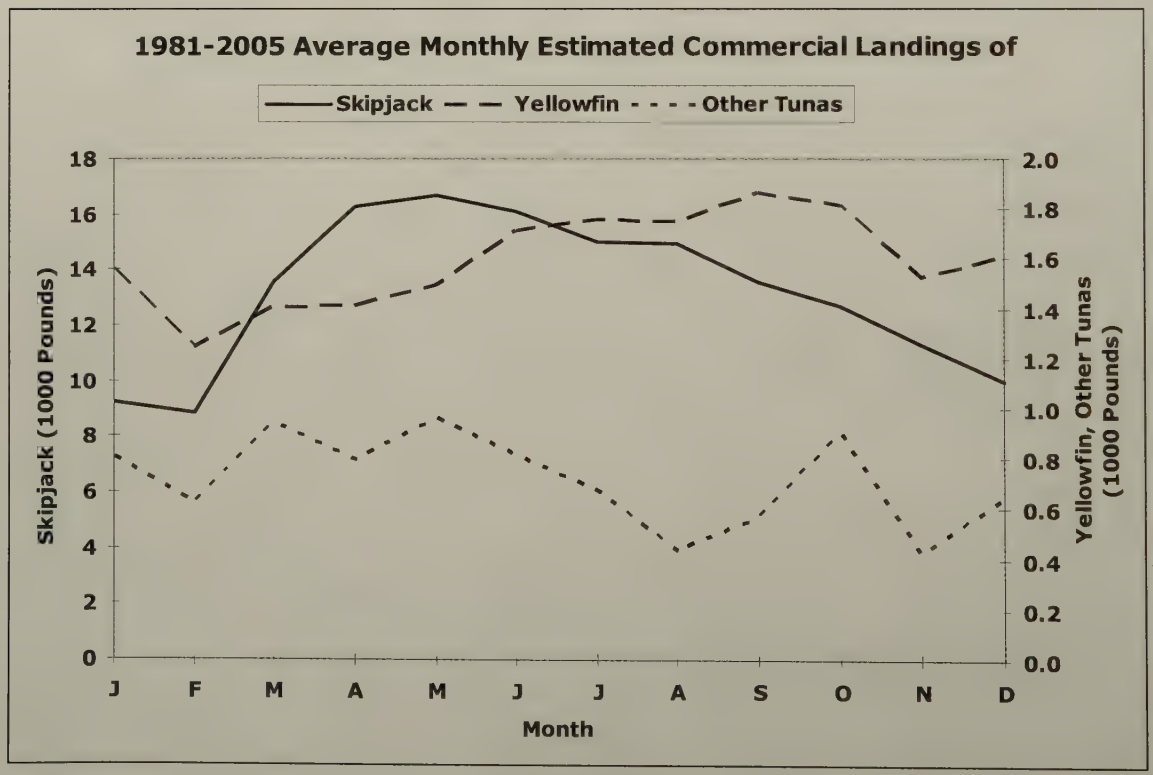


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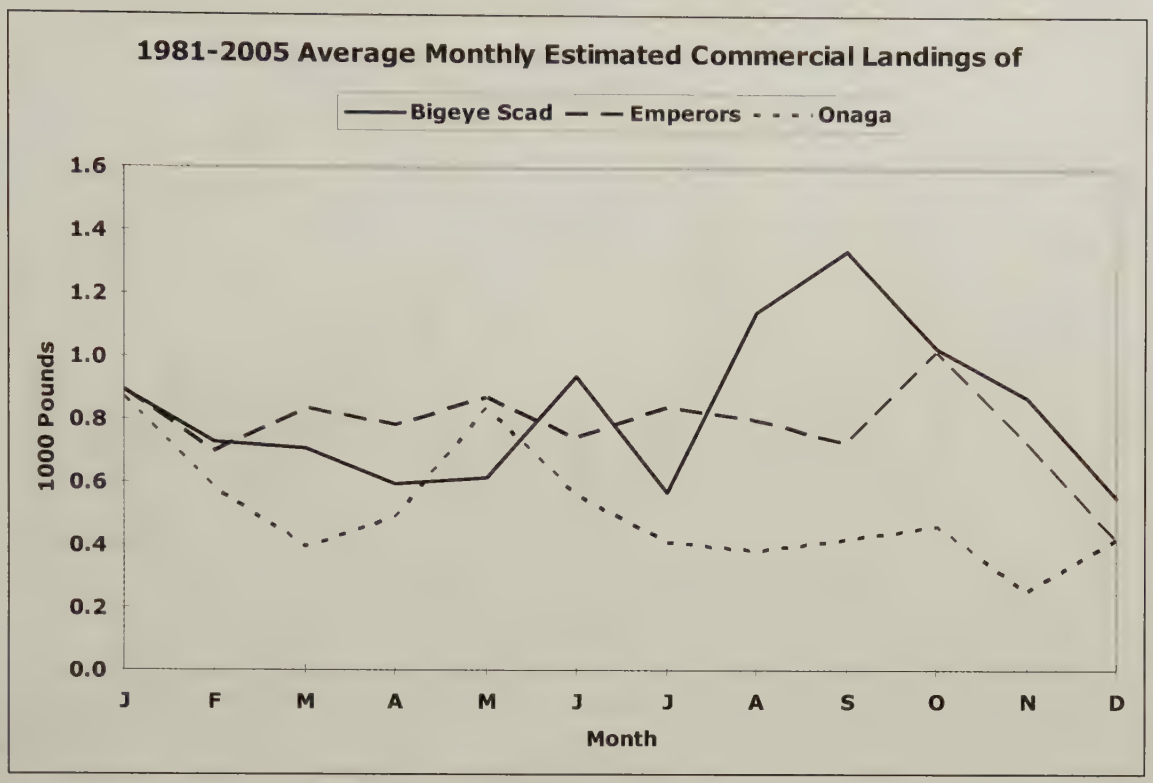


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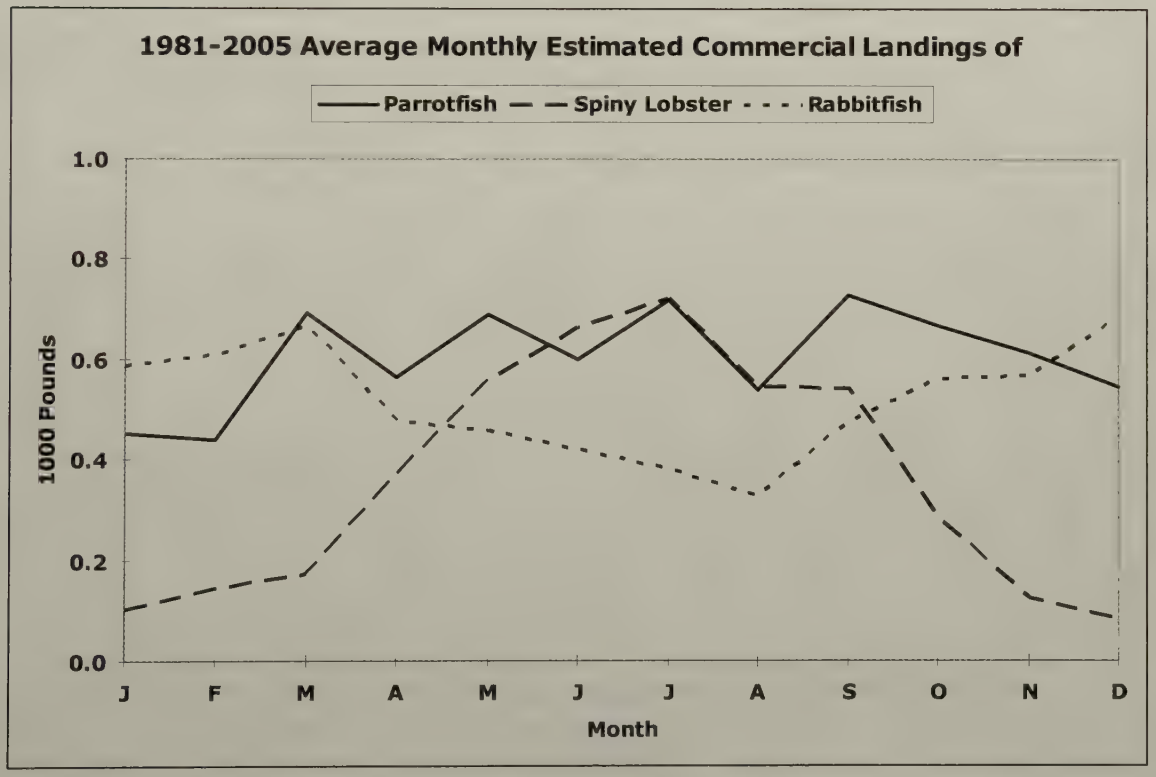


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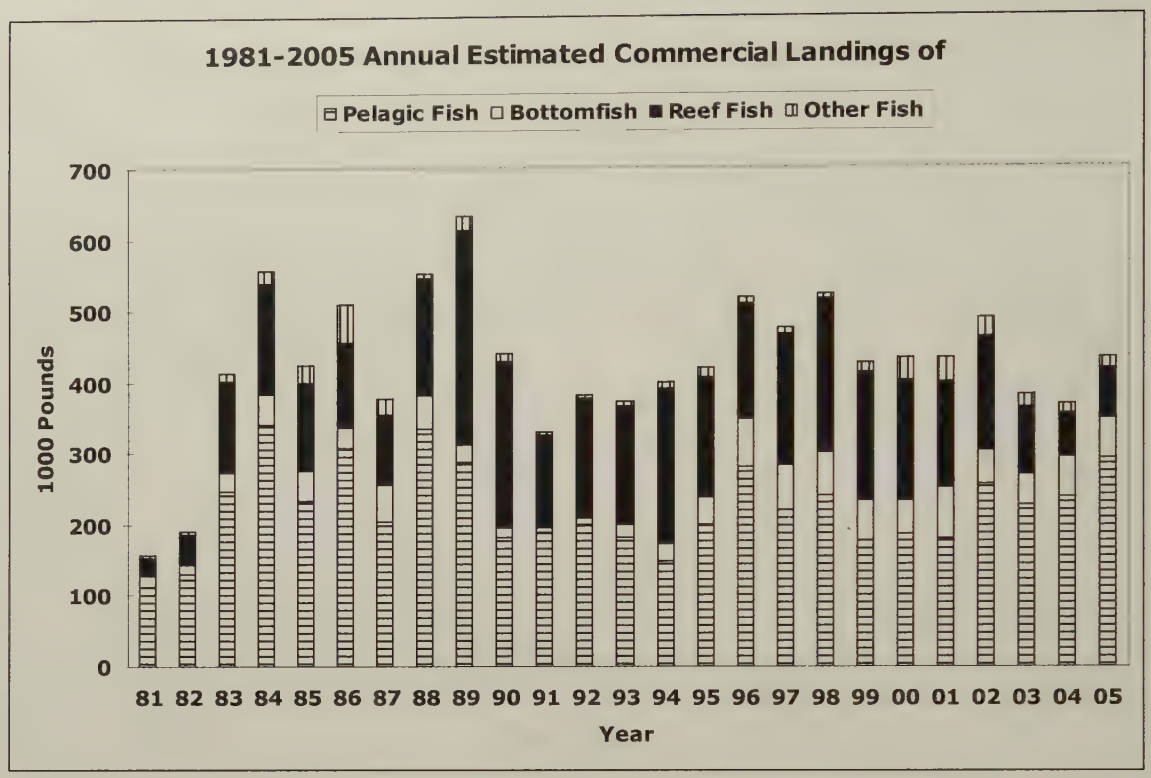


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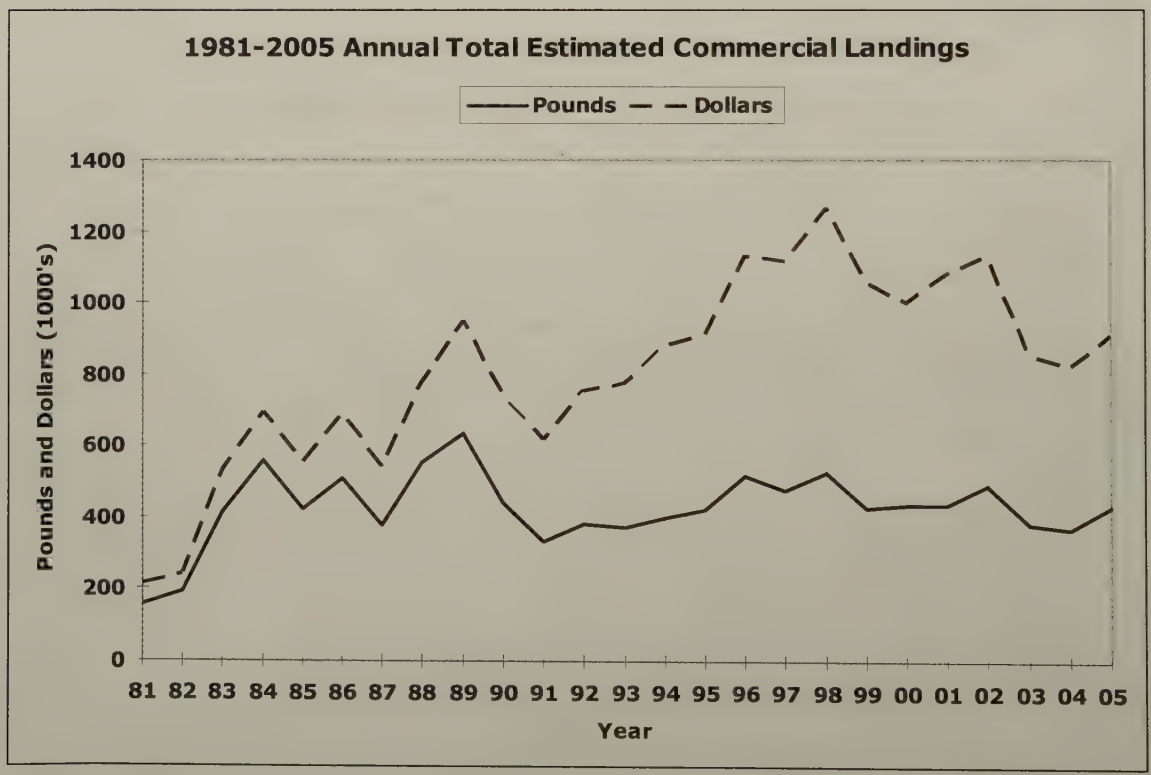


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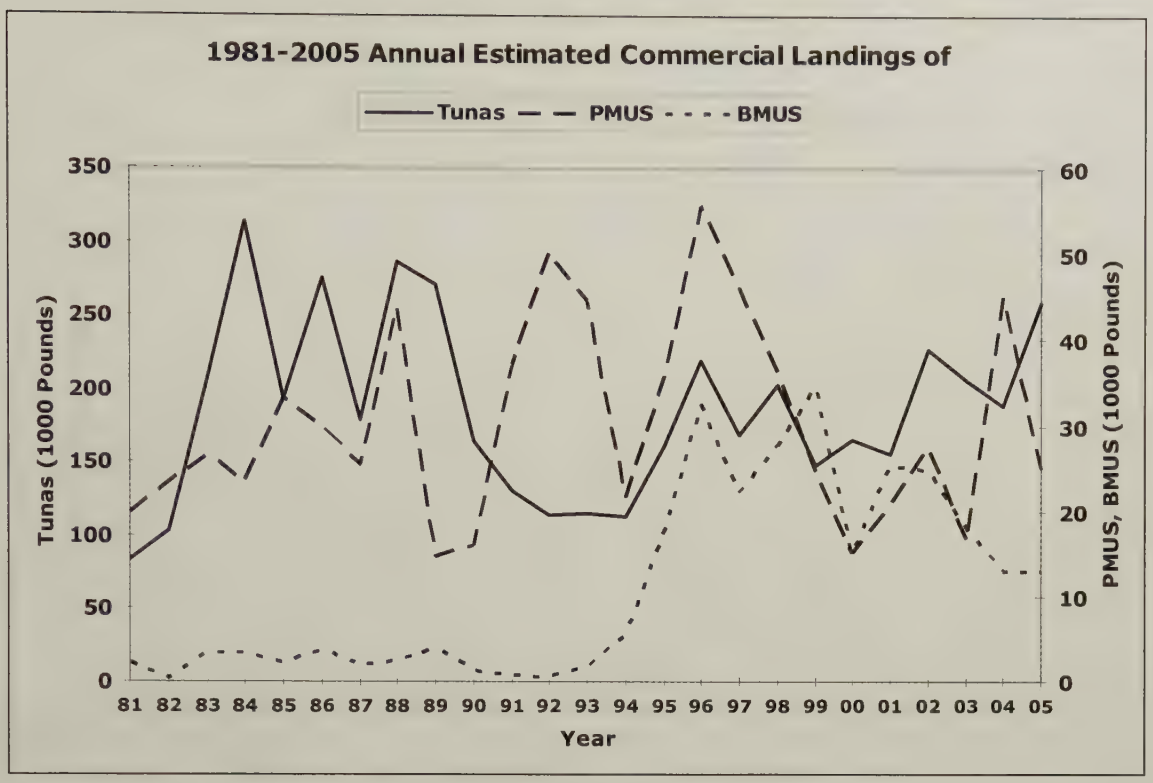


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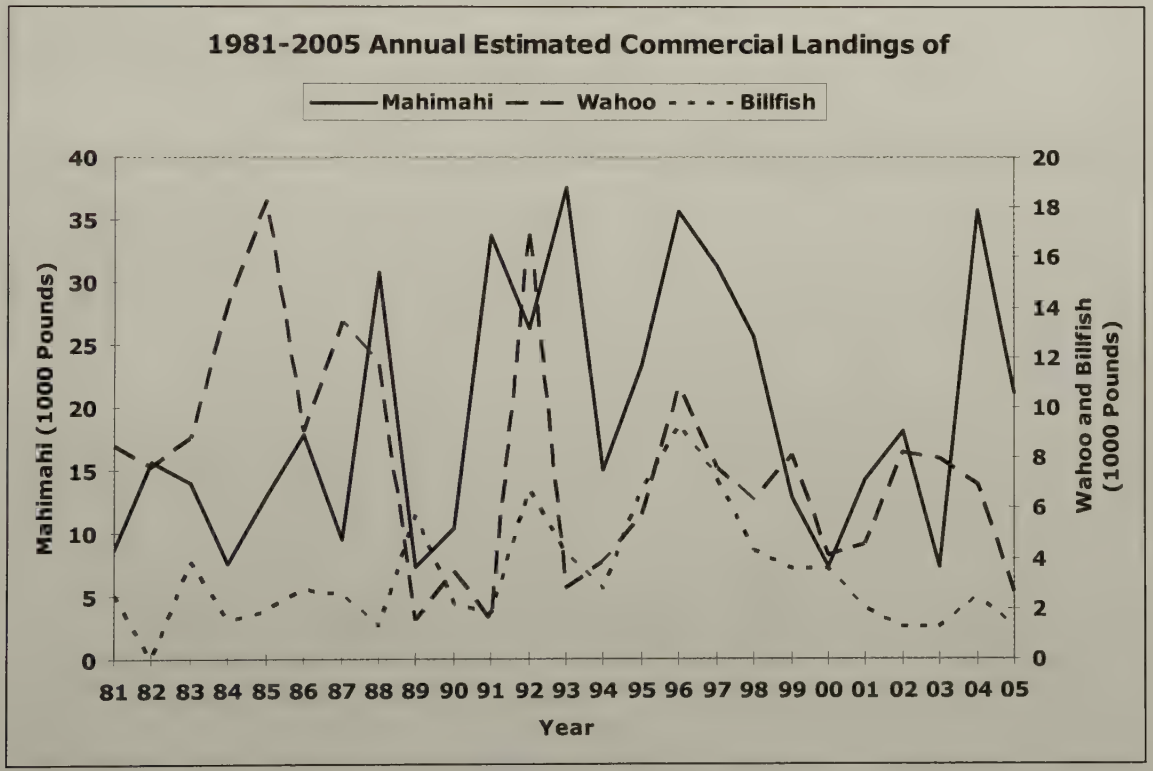


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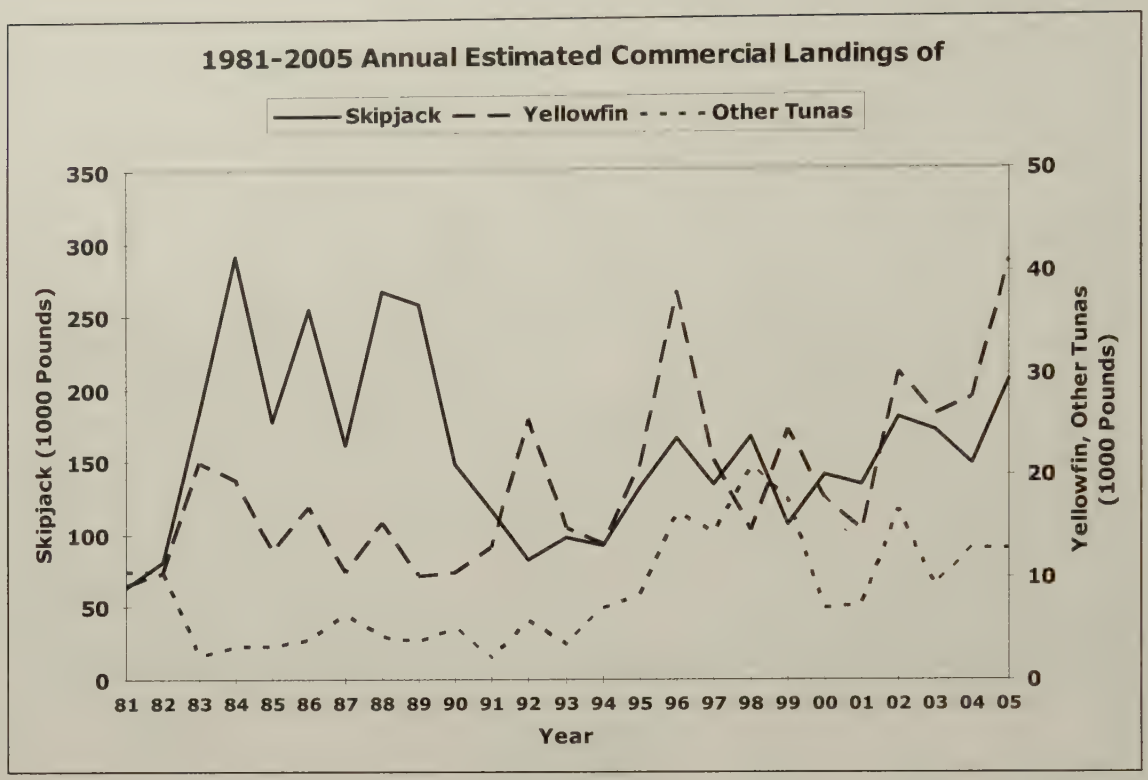


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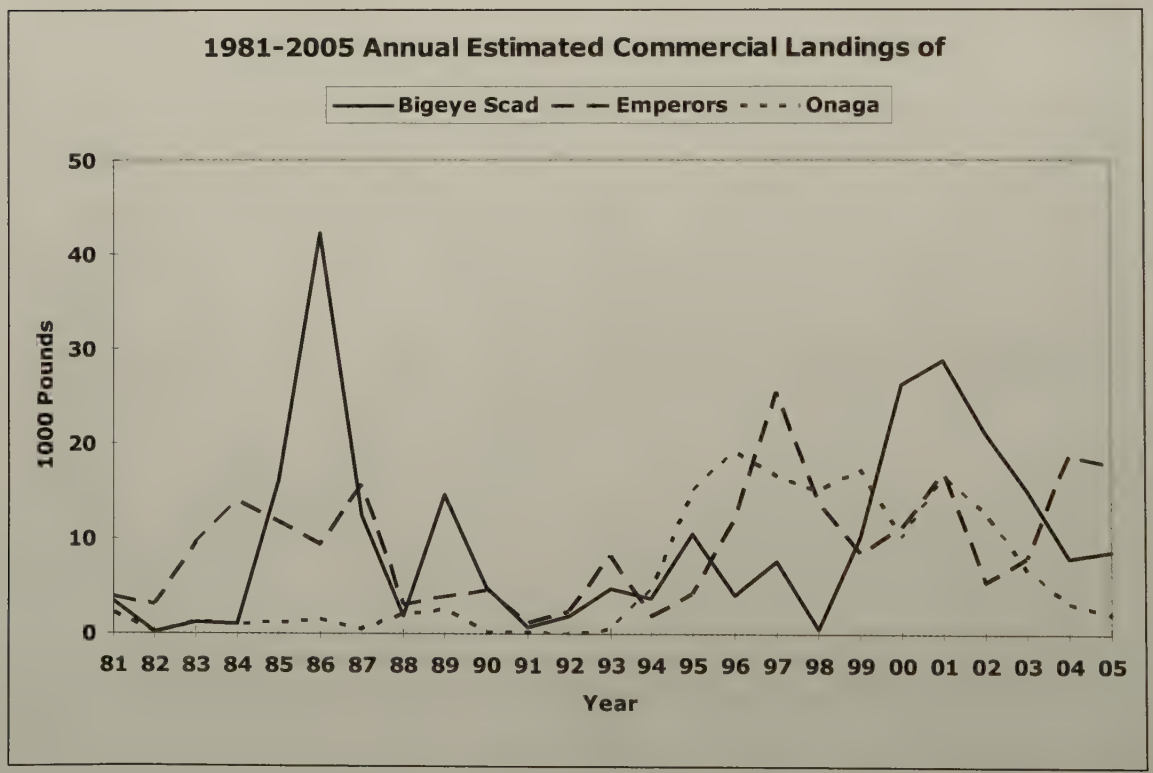


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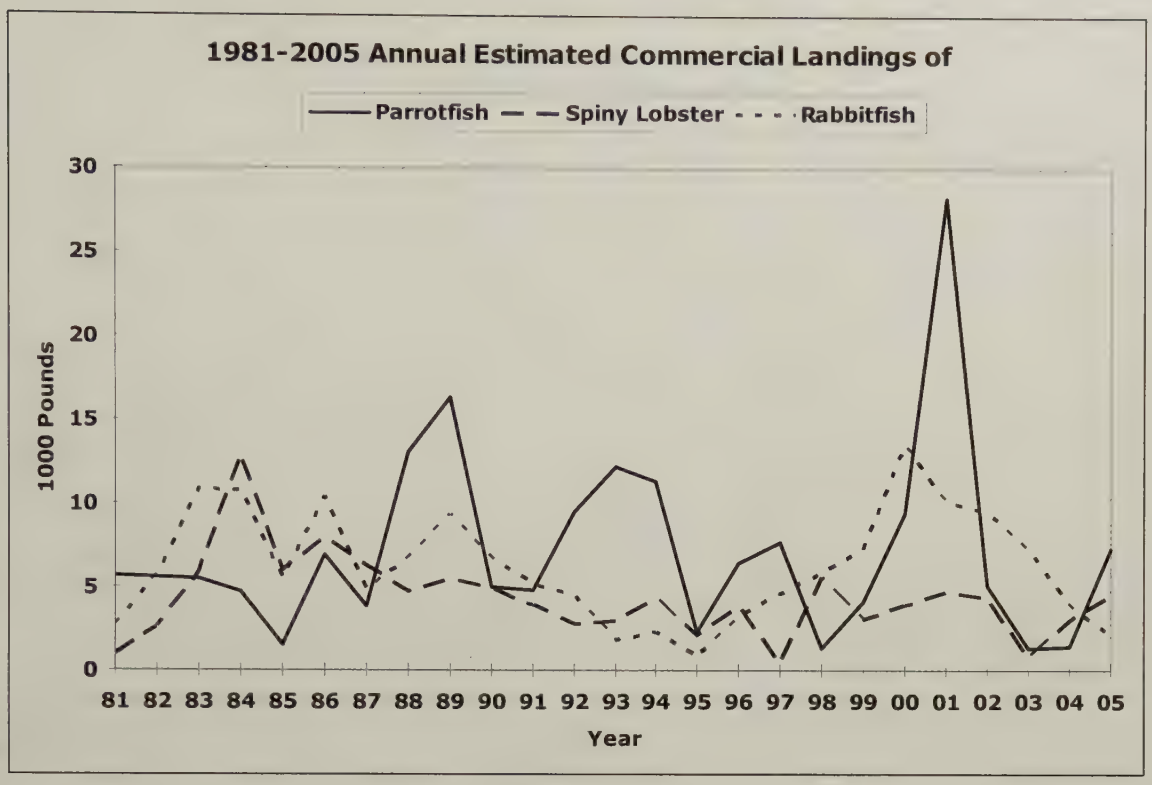


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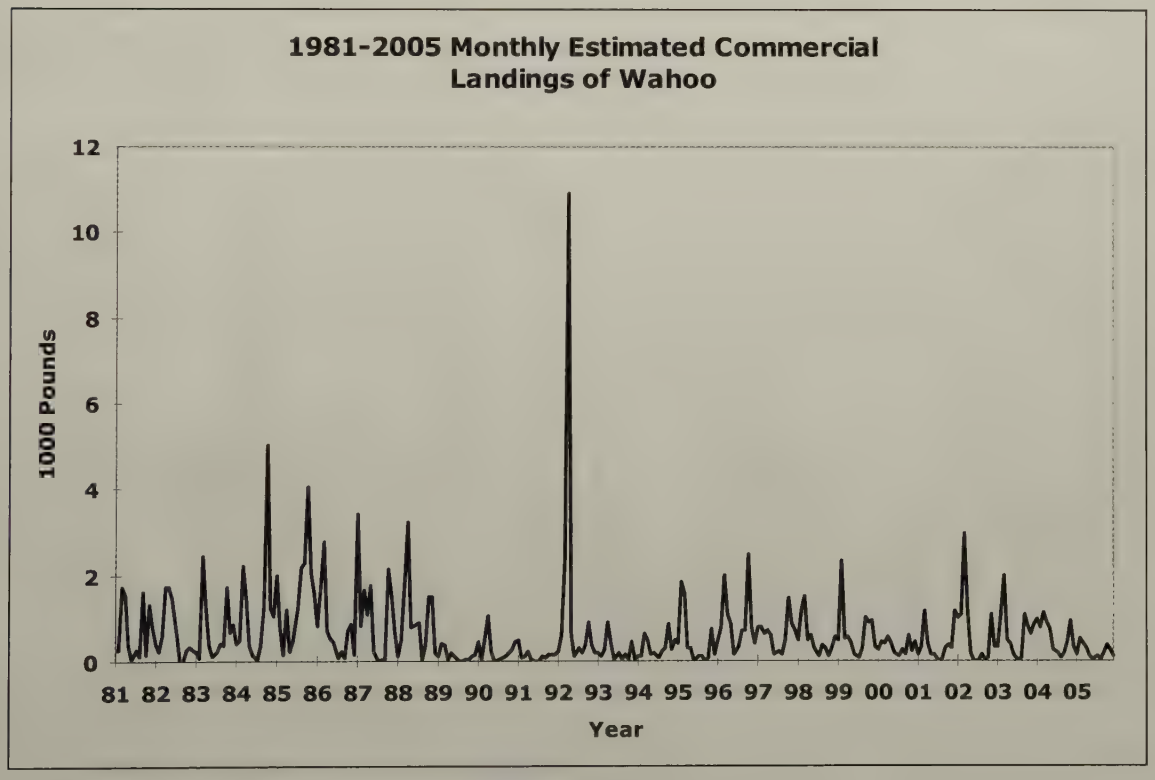


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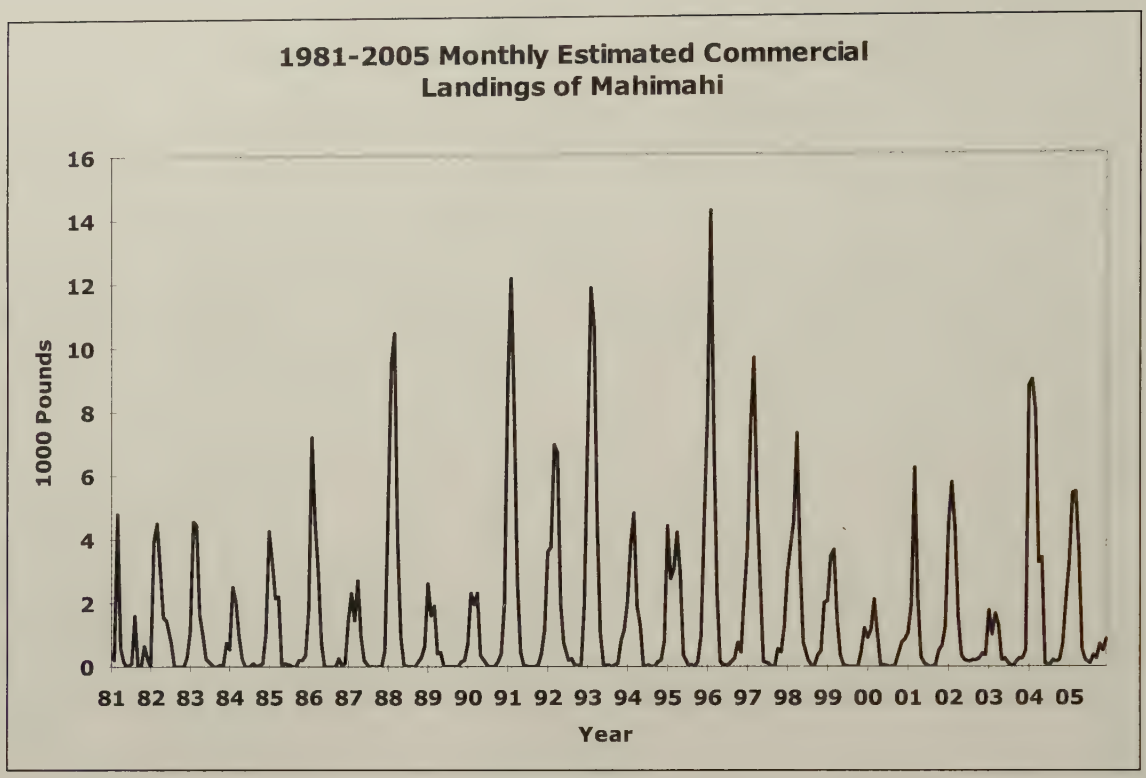


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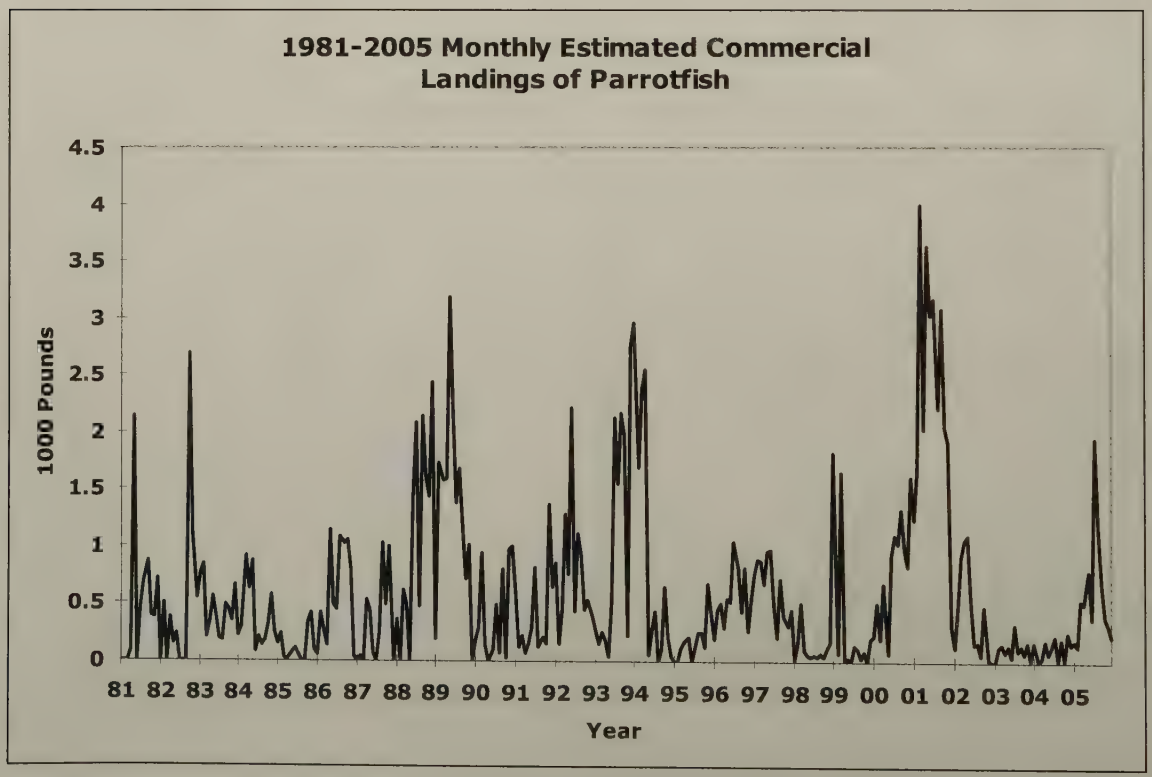


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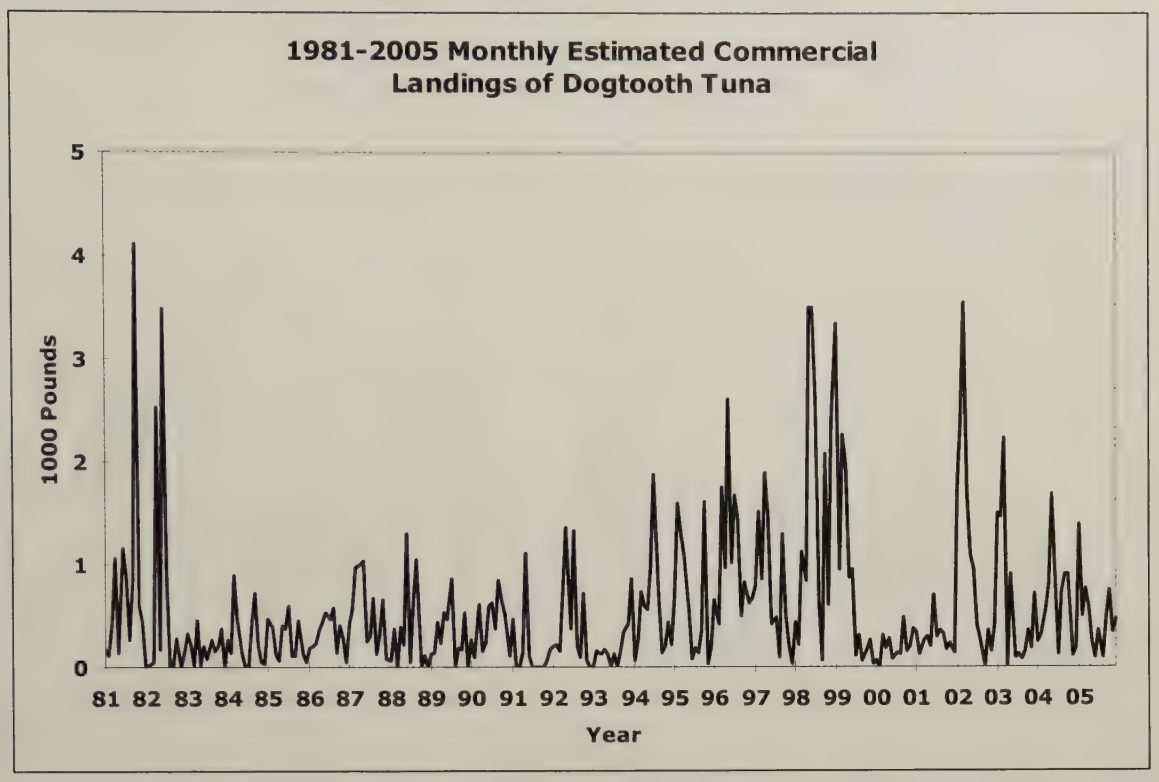


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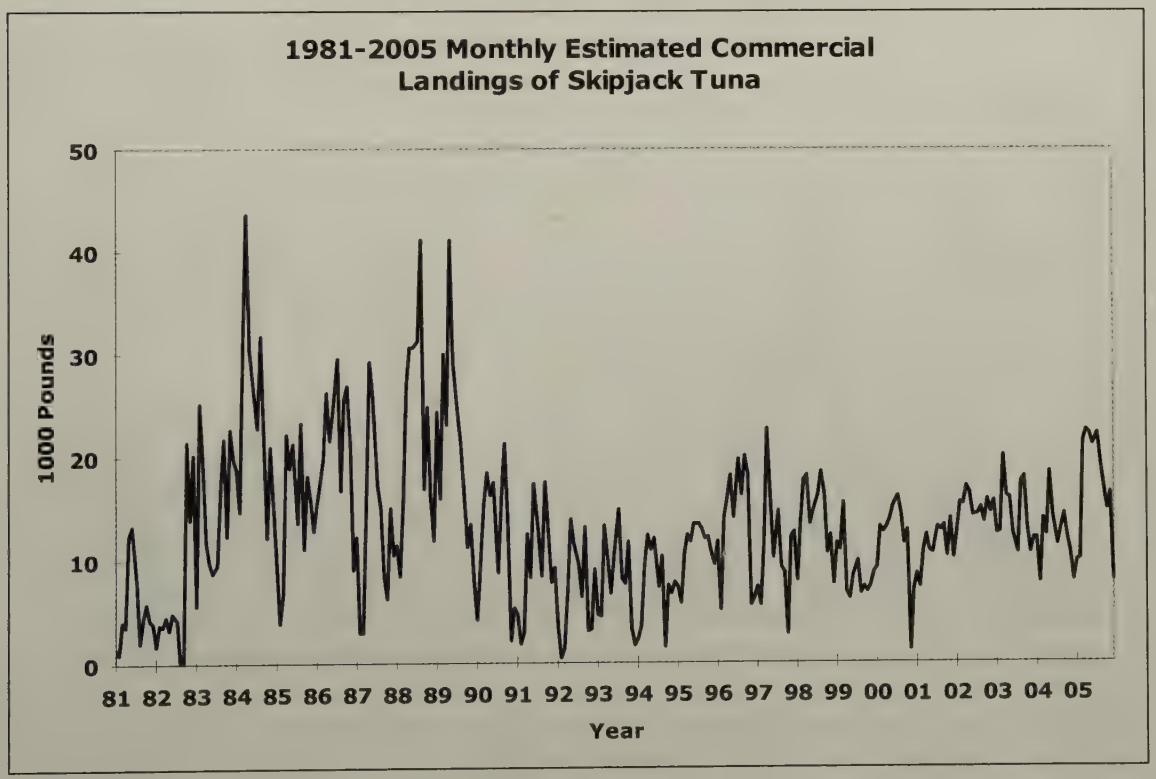


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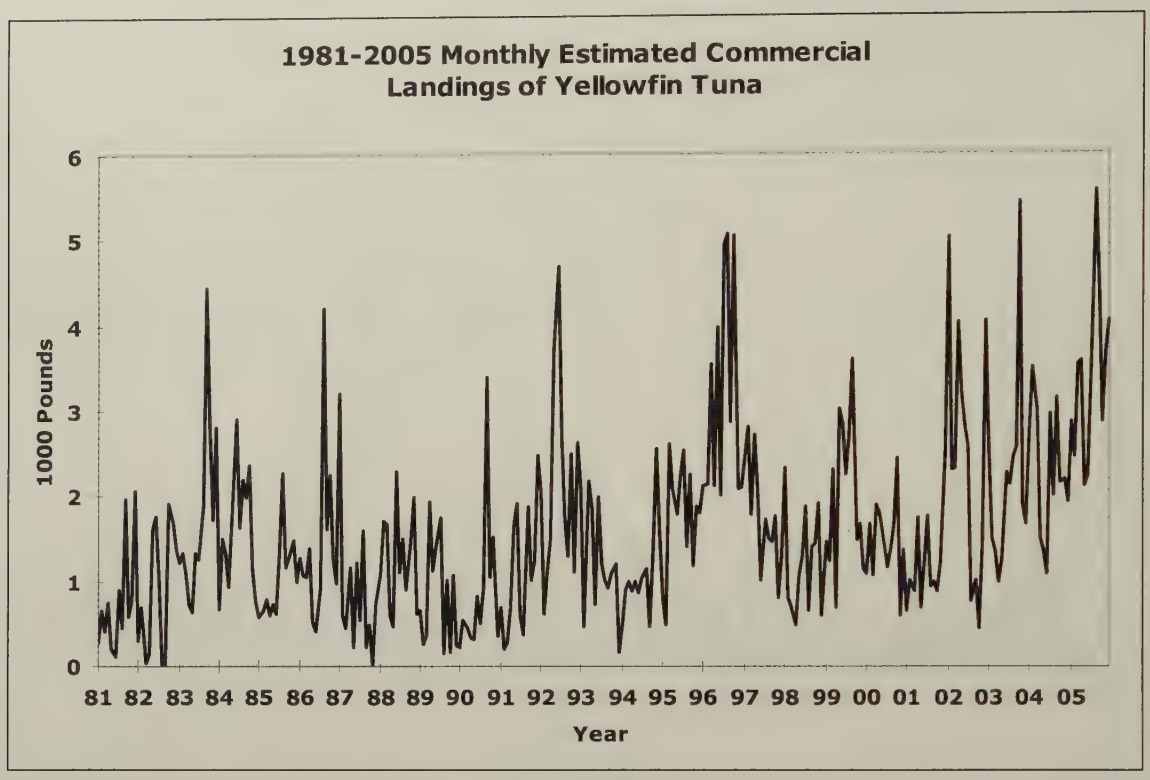


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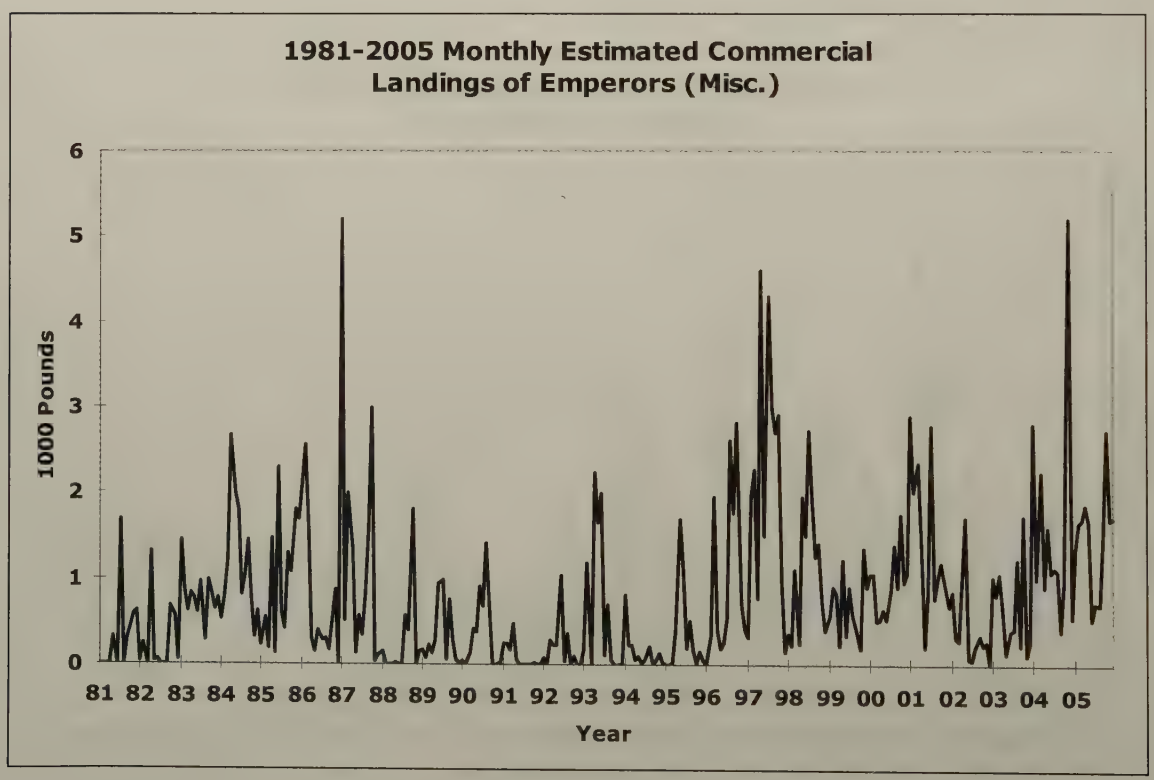


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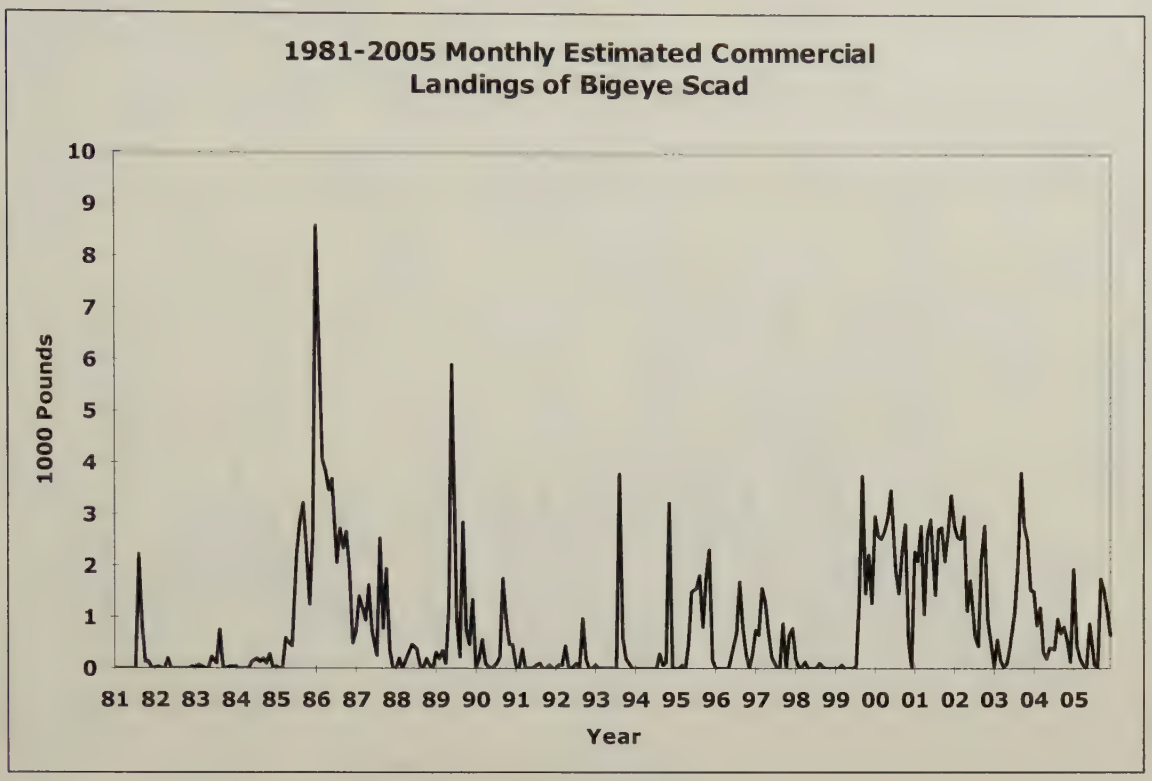


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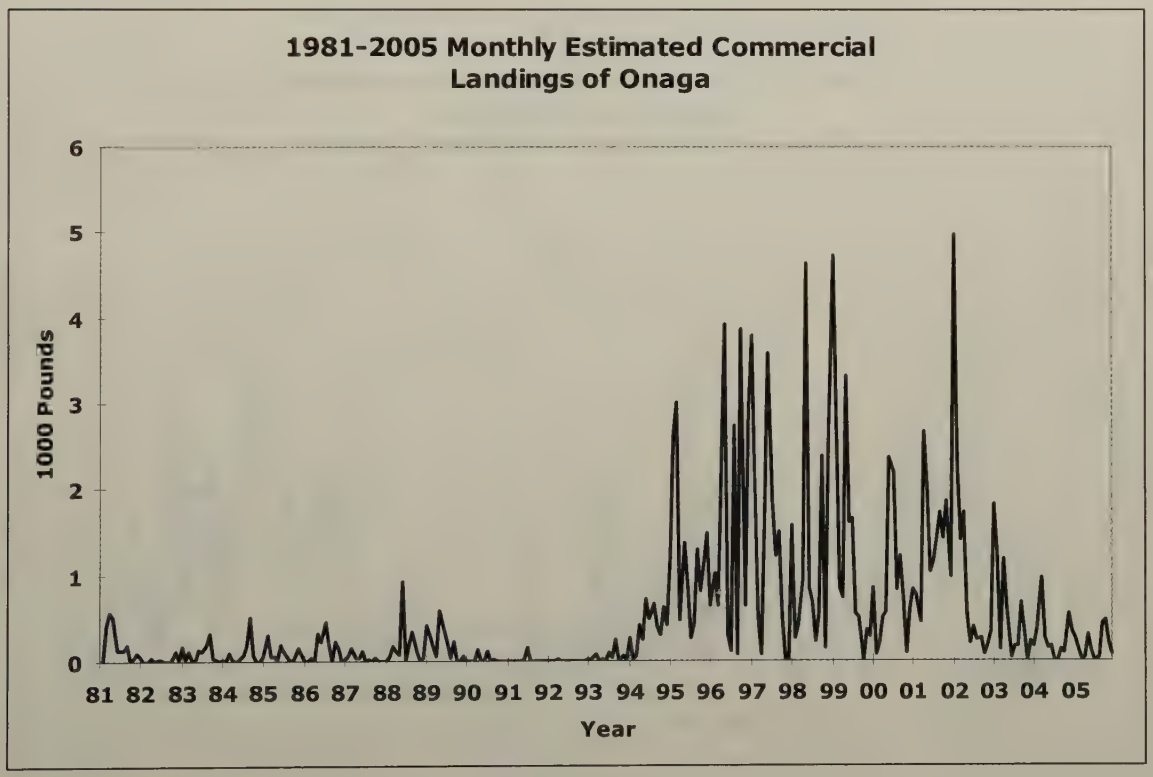


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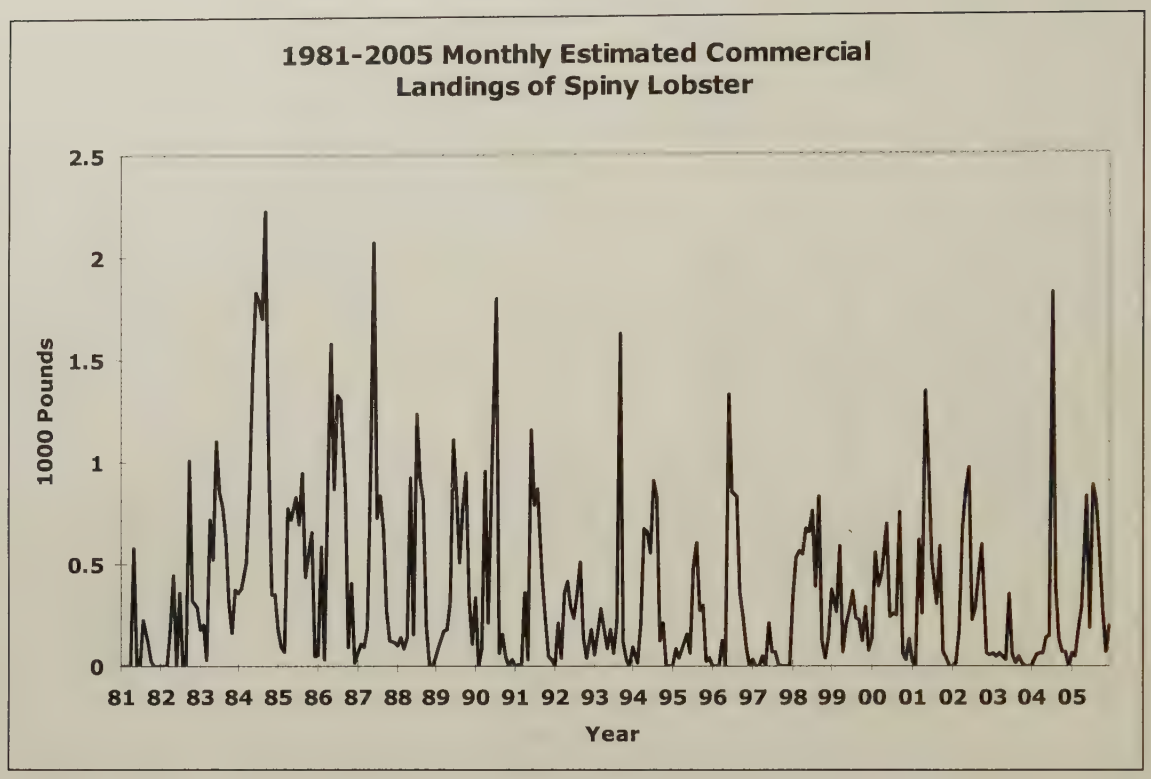


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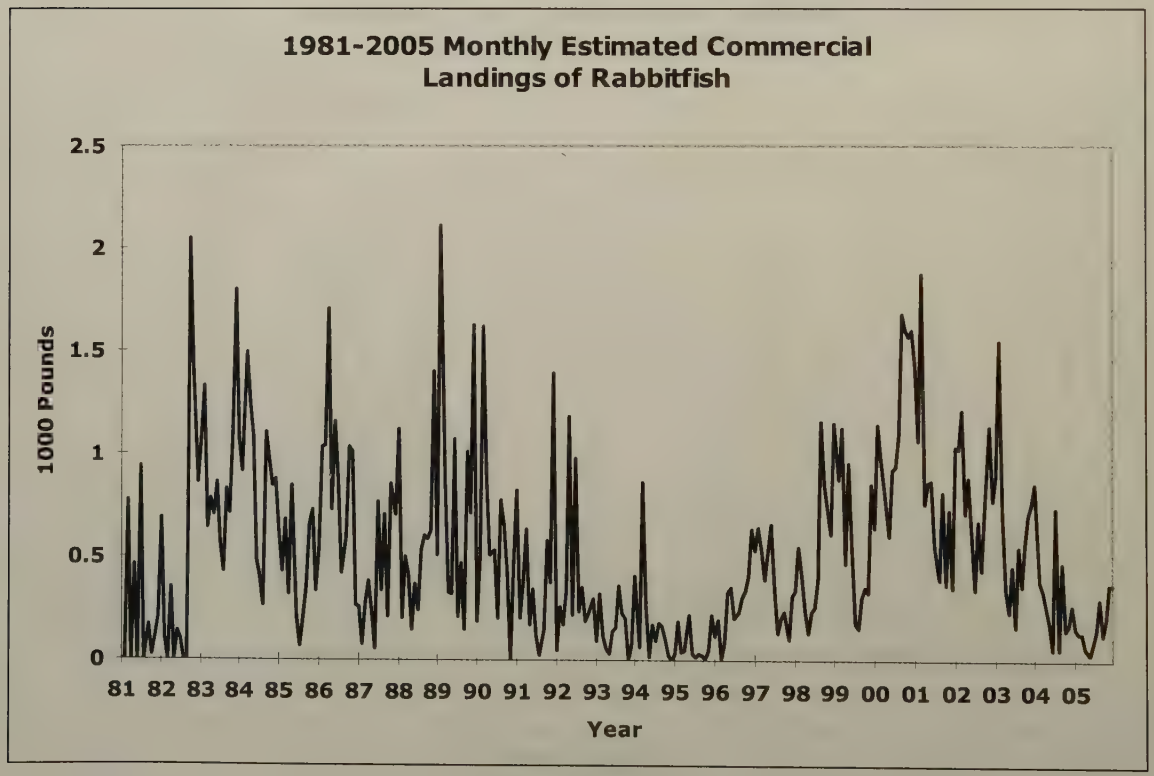


Figure B-4-11

# GUAM 2005 FISHERY STATISTICS

Compiled by

Guam Division of Aquatic and Wildlife Resources

and the

Western Pacific Fishery Information Network

July 2007

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# GUAM 2005 FISHERY STATISTICS

## INTRODUCTION

The Territory of Guam is the southernmost, largest, and most populous island in the Mariana Archipelago.

*Location*: 13.4°N latitude, 144.4°E longitude

*Population*: about 173,500 (*The World Factbook*, 2007)

*Economy*: U.S. military and tourism

Guam
Source: https://www.cia.gov/library/publications/the-world-factbook/maps/gq-map.gif; *The World Factbook*

Fishing activities on Guam are divided into two basic categories: offshore and inshore fishing. Offshore fishing typically involves small boats (12 to 48 feet) going on 1- to 2-day trolling and bottomfishing trips. They usually originate from one of the three principal harbors located on the west coast and southern tip of the island. Inshore fishing is usually conducted without the use of a boat and consists mostly of nearshore casting, netting, and spearfishing.

In 1982, WPacFIN began working with staff of the Division of Aquatic and Wildlife Resources (DAWR) and with local fish dealers to obtain information on commercial landings through voluntary use of "trip ticket" invoices provided by WPacFIN. The tables and graphs in this section are based on data that are summarized from receipts submitted by all participating dealers on Guam and then adjusted to create the estimated total commercial landings based on an estimated annual percent coverage factor.

## COMMERCIAL LANDINGS DATA COLLECTING SYSTEM

There are three sources of fish in Guam's commercial market: (1) full-time commercial fishers; (2) part-time commercial fishers; and (3) subsistence or recreational "expense" fishers who frequently sell portions of their catch to help defray costs. Licenses are not required to sell fish in Guam, nor are there any reporting requirements for those selling fish.

In July 1979 the Guam Fishermen's Coop was established in Agana through government funding. It subsequently became the central distribution center for fresh local fish. Prior to 1979 there was no central place to sell fish, and fishers had to develop their own markets and peddle fish after each trip.

In 1982, WPacFIN began working with the Coop to improve their invoicing system and to obtain data on all fish purchases. A cooperative system was established whereby the Coop would use forms and coding schemes designed by WPacFIN and would supply copies of all invoices to WPacFIN for computer data entry. In return, WPacFIN would provide the Coop with document quality control and computer-generated summary statistics. All purchase data back to July 1979 were also coded and computerized. As time progressed, other fish markets began to operate, and DAWR and WPacFIN staff worked with them to obtain data through the voluntary receipt book program.

Although a proposed law has been introduced several times that would require reporting by dealers and possibly commercial fishers, it has never made it very far through the legislative process, and the commercial landings data collection system remains voluntary.

Data collected on commercial receipts forms include

- Date
- Number of Fishermen
- Area Fished
- Number of Pieces Caught
- Price per Pound
- Fisherman Code
- Hours Fished
- Species Caught
- Pounds Caught

## COMMERCIAL LANDINGS DATA PROCESSING SYSTEM

In earlier years data were processed at the central WPacFIN office in Honolulu. Beginning in 1994, however, DAWR staff took over this task using a computer and software provided by WPacFIN. The processing system for the commercial landings data collected from the fish dealers is fairly straightforward. Dealers complete a purchase form every time they purchase fish from a fisherman. On this form, catches are divided into categories for weighing by species or species group (where practicable, number of pieces is also recorded). Once all the edits, adjustments, verifications, and corrections are made, summary reports are generated. Numerous standard reports are available, but only the monthly and annual landings by species are provided in this document.

## COMMERCIAL LANDINGS DATA REPORTING SYSTEM

After completing all editing, adjusting, and quality control activities for the commercial landings data, monthly and annual summary reports by species are generated. Each table contains information on the pounds, value, and the average price per pound for each species or species group. Each monthly report contains a subtotal for the sum of all species combined for that month. Annual reports contain the estimated total landings for each species and the estimated total recorded landings for all species for the calendar year. Included with the estimated commercial landings summary reports are graphs of some of the important statistics.

Please note that commercial landings data have been adjusted to reflect total coverage and are referenced as "Estimated Commercial Landings" in the charts and tables. Also, some of the charts in this volume are new or modified from earlier volumes.

To access the most up-to-date data and charts, please visit the WPacFIN Website at <http://www.pifsc.noaa.gov/wpacfin>.

The following groupings of species, species categories, and abbreviations are used in the tables and graphs for Guam's commercial landings:

*Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

I. Pelagic Management Unit Species (PMUS)

Mahimahi (dolphin)
Marlin (probably all blue but possibly striped or black)
Spearfish
Sailfish
Wahoo
Sharks

II. Bottomfish Management Unit Species (BMUS)

Jacks (unclassified but excluding bigeye scad)
Amberjack
Bottomfish (unclassified)
Ehu (red snapper)
Gindai (flower snapper)
Grouper
Kalekale (pink snapper)

II. Bottomfish Management Unit Species (BMUS) (cont.)

Lehi (silverjaw snapper)
Onaga (red or longtail snapper)
Opakapaka (pink snapper)
Uku (gray snapper)
Emperor (mafute)

III. Billfish

Marlin (probably all blue but possibly striped or black)
Spearfish
Sailfish

IV. Tunas

Tunas (unclassified)
Skipjack tuna
Yellowfin tuna
Dogtooth or white tuna
Kawakawa

V. Other Tuna

All the above tunas excluding skipjack and yellowfin tunas

VI. Fisheries Categories

A. Pelagic Species

All PMUS and tuna species plus the following:

Troll fish (unclassified)
Barracuda
Rainbow runner

B. Bottomfish

Same as the BMUS

VI. Fisheries Categories (cont.)

C. Reef Fish

| | |
|---|---|
| Reef fish (unclassified) | Parrotfish |
| Giant wrasse | Snapper |
| Rabbitfish | Surgeonfish |
| Rudderfish | Unicornfish |
| Squirrelfish | Goatfish |

D. Other

| | |
|---|---|
| Miscellaneous (unclassified) | Coconut crab |
| Bigeye scad | Lobster |
| Mullet | Shrimp |
| Eels | Octopus |
| Milkfish | Squid |
| Invertebrates (unclassified) | Seaweeds |
| Crabs (unclassified) | Imported |

## INTERPRETATION OF STATISTICS

The user is reminded again to pay heed to the precautions and assumptions identified earlier in this document when making interpretations of or inferences from data reported in the tables and graphs. Remember also that the commercial landings summaries are adjusted numbers based on samples of fishing activities.

## Table C-1
## 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Unknown | 65 | $162 | $2.50 |
| Fillets | 19 | $42 | $2.25 |
| Miscellaneous | 286 | $858 | $3.00 |
| Bigeye scad (atulai) | 982 | $3,004 | $3.06 |
| Black jack | 2,304 | $5,274 | $2.29 |
| Jacks | 2,364 | $5,845 | $2.47 |
| Napoleon wrasse | 191 | $515 | $2.69 |
| Sharks | 21 | $51 | $2.50 |
| Eel (freshwater - old code) | 11 | $42 | $4.00 |
| Milkfish | 37 | $94 | $2.52 |
| Bottom fish | 52 | $26 | $0.50 |
| Alfonsin | 9 | $9 | $1.00 |
| Ehu (red snapper) | 396 | $1,549 | $3.91 |
| Gindai (flower snapper) | 740 | $2,770 | $3.74 |
| Grouper | 2,006 | $5,434 | $2.71 |
| Kalikali (pink snapper) | 403 | $1,233 | $3.06 |
| Lehi (silverjaw) | 904 | $3,285 | $3.64 |
| Onaga (red snapper) | 5,020 | $23,926 | $4.77 |
| Opakapaka (pink snapper) | 347 | $1,379 | $3.97 |
| Uku (gray snapper) | 1,676 | $4,107 | $2.45 |
| Tagafi (red snapper) | 57 | $109 | $1.91 |
| Amberjack | 964 | $2,607 | $2.70 |
| Reef fish | 86,307 | $252,000 | $2.92 |
| Wrasse | 1,396 | $3,756 | $2.69 |
| Rabbitfish | 879 | $2,576 | $2.93 |
| Rudderfish (guilli) | 374 | $1,064 | $2.85 |
| Mafute (emperor) | 3,886 | $9,985 | $2.57 |
| Parrotfish | 1,164 | $3,039 | $2.61 |
| Snapper | 621 | $1,628 | $2.62 |
| Surgeonfish | 707 | $1,890 | $2.67 |
| Unicornfish | 22,861 | $61,218 | $2.68 |
| Goatfish | 227 | $588 | $2.59 |
| Troll fish | 32 | $65 | $2.00 |
| Barracuda | 1,801 | $3,260 | $1.81 |
| Mahi/dolphinfish | 81,266 | $121,632 | $1.50 |
| Marlin | 22,849 | $24,470 | $1.07 |
| Spearfish | 108 | $111 | $1.03 |
| Sailfish | 1,398 | $1,757 | $1.26 |
| Rainbow runner | 4,313 | $7,108 | $1.65 |
| Monchong | 1,384 | $2,991 | $2.16 |
| Wahoo | 34,545 | $67,308 | $1.95 |
| Bonita/skipjack tuna | 34,212 | $36,264 | $1.06 |
| Dogtooth tuna | 2,581 | $2,824 | $1.09 |

**Table C-1 (cont.)**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Yellowfin tuna | 28,610 | $58,411 | $2.04 |
| Crabs (misc) | 25 | $73 | $2.87 |
| Lobster | 2,704 | $9,182 | $3.40 |
| Octopus | 4,860 | $12,516 | $2.58 |
| TOTAL | 357,965 | $748,036 | $2.09 |

## Table C-2
## January 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Black jack | 6 | $16 | $2.75 |
| Jacks | 136 | $345 | $2.54 |
| Gindai (flower snapper) | 2 | $9 | $4.00 |
| Grouper | 107 | $288 | $2.69 |
| Lehi (silverjaw) | 12 | $43 | $3.50 |
| Onaga (red snapper) | 595 | $2,436 | $4.10 |
| Opakapaka (pink snapper) | 17 | $68 | $4.00 |
| Uku (gray snapper) | 23 | $58 | $2.51 |
| Amberjack | 140 | $376 | $2.69 |
| Reef fish | 5,887 | $17,188 | $2.92 |
| Wrasse | 99 | $253 | $2.55 |
| Rabbitfish | 56 | $169 | $3.00 |
| Mafute (emperor) | 22 | $58 | $2.66 |
| Unicornfish | 2,081 | $5,273 | $2.53 |
| Goatfish | 22 | $54 | $2.50 |
| Barracuda | 90 | $173 | $1.92 |
| Mahi/dolphinfish | 11,271 | $17,068 | $1.51 |
| Sailfish | 168 | $252 | $1.50 |
| Rainbow runner | 151 | $233 | $1.54 |
| Monchong | 83 | $182 | $2.20 |
| Wahoo | 4,159 | $7,907 | $1.90 |
| Bonita/skipjack tuna | 1,515 | $1,807 | $1.19 |
| Dogtooth tuna | 164 | $183 | $1.12 |
| Yellowfin tuna | 1,487 | $2,807 | $1.89 |
| Lobster | 179 | $525 | $2.94 |
| Octopus | 191 | $476 | $2.50 |
| TOTAL | 28,662 | $58,249 | $2.03 |

**Table C-3**
**February 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Black jack | 6 | $13 | $2.25 |
| Jacks | 172 | $401 | $2.32 |
| Gindai (flower snapper) | 16 | $66 | $4.00 |
| Grouper | 162 | $442 | $2.73 |
| Kalikali (pink snapper) | 6 | $19 | $3.00 |
| Onaga (red snapper) | 78 | $311 | $4.00 |
| Uku (gray snapper) | 5 | $15 | $2.75 |
| Reef fish | 8,193 | $23,773 | $2.90 |
| Wrasse | 131 | $361 | $2.75 |
| Rabbitfish | 69 | $204 | $2.93 |
| Rudderfish (guilli) | 41 | $122 | $3.00 |
| Mafute (emperor) | 243 | $567 | $2.33 |
| Snapper | 8 | $19 | $2.25 |
| Unicornfish | 1,679 | $4,757 | $2.83 |
| Goatfish | 52 | $131 | $2.50 |
| Barracuda | 144 | $265 | $1.84 |
| Mahi/dolphinfish | 16,648 | $24,532 | $1.47 |
| Marlin | 797 | $945 | $1.19 |
| Sailfish | 49 | $49 | $1.00 |
| Rainbow runner | 264 | $395 | $1.50 |
| Wahoo | 4,448 | $8,514 | $1.91 |
| Bonita/skipjack tuna | 2,625 | $2,567 | $0.98 |
| Dogtooth tuna | 112 | $112 | $1.00 |
| Yellowfin tuna | 2,209 | $4,150 | $1.88 |
| Lobster | 74 | $272 | $3.69 |
| Octopus | 104 | $275 | $2.64 |
| TOTAL | 38,337 | $73,274 | $1.91 |

**Table C-4**
**March 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Jacks | 53 | $123 | $2.33 |
| Alfonsin | 9 | $9 | $1.00 |
| Grouper | 89 | $226 | $2.55 |
| Uku (gray snapper) | 21 | $58 | $2.75 |
| Tagafi (red snapper) | 29 | $51 | $1.75 |
| Reef fish | 8,995 | $26,180 | $2.91 |
| Rabbitfish | 266 | $798 | $3.00 |
| Mafute (emperor) | 63 | $168 | $2.66 |
| Unicornfish | 2,025 | $5,709 | $2.82 |
| Barracuda | 71 | $141 | $2.00 |
| Mahi/dolphinfish | 14,329 | $21,120 | $1.47 |
| Marlin | 1,274 | $1,380 | $1.08 |
| Spearfish | 58 | $58 | $1.00 |
| Sailfish | 54 | $54 | $1.00 |
| Rainbow runner | 161 | $242 | $1.50 |
| Wahoo | 3,481 | $6,798 | $1.95 |
| Bonita/skipjack tuna | 3,515 | $3,520 | $1.00 |
| Dogtooth tuna | 220 | $220 | $1.00 |
| Yellowfin tuna | 4,161 | $8,443 | $2.03 |
| Lobster | 149 | $541 | $3.63 |
| Octopus | 238 | $600 | $2.52 |
| TOTAL | 39,259 | $76,439 | $1.95 |

## Table C-5
## April 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Black jack | 28 | $69 | $2.50 |
| Jacks | 50 | $123 | $2.43 |
| Gindai (flower snapper) | 45 | $181 | $4.00 |
| Grouper | 32 | $93 | $2.88 |
| Kalikali (pink snapper) | 8 | $25 | $3.00 |
| Lehi (silverjaw) | 4 | $15 | $3.75 |
| Uku (gray snapper) | 66 | $165 | $2.49 |
| Tagafi (red snapper) | 28 | $58 | $2.08 |
| Reef fish | 7,734 | $22,569 | $2.92 |
| Rabbitfish | 61 | $184 | $3.00 |
| Mafute (emperor) | 62 | $166 | $2.69 |
| Snapper | 11 | $26 | $2.44 |
| Surgeonfish | 22 | $59 | $2.72 |
| Unicornfish | 1,562 | $3,916 | $2.51 |
| Barracuda | 215 | $316 | $1.47 |
| Mahi/dolphinfish | 13,108 | $19,385 | $1.48 |
| Marlin | 1,316 | $1,509 | $1.15 |
| Sailfish | 242 | $242 | $1.00 |
| Rainbow runner | 265 | $398 | $1.50 |
| Monchong | 54 | $108 | $2.00 |
| Wahoo | 4,544 | $8,876 | $1.95 |
| Bonita/skipjack tuna | 4,314 | $4,194 | $0.97 |
| Dogtooth tuna | 215 | $215 | $1.00 |
| Yellowfin tuna | 2,731 | $5,156 | $1.89 |
| Lobster | 219 | $820 | $3.75 |
| Octopus | 224 | $589 | $2.62 |
| TOTAL | 37,161 | $69,458 | $1.87 |

## Table C-6
## May 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad (atulai) | 4 | $11 | $3.00 |
| Black jack | 325 | $757 | $2.33 |
| Jacks | 202 | $429 | $2.13 |
| Sharks | 21 | $51 | $2.50 |
| Bottom fish | 52 | $26 | $0.50 |
| Ehu (red snapper) | 58 | $231 | $4.00 |
| Gindai (flower snapper) | 232 | $794 | $3.42 |
| Grouper | 296 | $863 | $2.91 |
| Kalikali (pink snapper) | 138 | $418 | $3.04 |
| Lehi (silverjaw) | 111 | $390 | $3.53 |
| Onaga (red snapper) | 651 | $3,213 | $4.94 |
| Opakapaka (pink snapper) | 114 | $460 | $4.05 |
| Uku (gray snapper) | 205 | $491 | $2.39 |
| Amberjack | 80 | $193 | $2.41 |
| Reef fish | 7,878 | $22,659 | $2.88 |
| Mafute (emperor) | 751 | $1,978 | $2.63 |
| Unicornfish | 1,113 | $3,102 | $2.79 |
| Troll fish | 14 | $28 | $2.00 |
| Barracuda | 319 | $550 | $1.72 |
| Mahi/dolphinfish | 3,055 | $5,192 | $1.70 |
| Marlin | 1,985 | $1,952 | $0.98 |
| Rainbow runner | 630 | $945 | $1.50 |
| Monchong | 239 | $478 | $2.00 |
| Wahoo | 1,470 | $3,073 | $2.09 |
| Bonita/skipjack tuna | 3,521 | $3,556 | $1.01 |
| Dogtooth tuna | 478 | $483 | $1.01 |
| Yellowfin tuna | 2,239 | $4,298 | $1.92 |
| Lobster | 212 | $746 | $3.52 |
| Octopus | 354 | $941 | $2.66 |
| TOTAL | 26,744 | $58,305 | $2.18 |

**Table C-7**
**June 2005 Estimated Commercial Landings**

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Black jack | 218 | $531 | $2.44 |
| Jacks | 220 | $579 | $2.63 |
| Ehu (red snapper) | 54 | $202 | $3.77 |
| Gindai (flower snapper) | 19 | $56 | $3.00 |
| Grouper | 171 | $462 | $2.70 |
| Kalikali (pink snapper) | 3 | $9 | $3.00 |
| Lehi (silverjaw) | 31 | $116 | $3.81 |
| Onaga (red snapper) | 662 | $3,202 | $4.84 |
| Opakapaka (pink snapper) | 4 | $10 | $2.75 |
| Uku (gray snapper) | 149 | $364 | $2.45 |
| Amberjack | 56 | $138 | $2.45 |
| Reef fish | 7,104 | $20,573 | $2.90 |
| Wrasse | 30 | $68 | $2.25 |
| Rabbitfish | 18 | $26 | $1.50 |
| Mafute (emperor) | 426 | $991 | $2.32 |
| Parrotfish | 79 | $217 | $2.75 |
| Snapper | 76 | $216 | $2.84 |
| Unicornfish | 1,060 | $2,823 | $2.66 |
| Goatfish | 41 | $124 | $3.00 |
| Barracuda | 155 | $281 | $1.82 |
| Mahi/dolphinfish | 491 | $840 | $1.71 |
| Marlin | 7,468 | $7,518 | $1.01 |
| Spearfish | 38 | $38 | $1.00 |
| Sailfish | 165 | $234 | $1.42 |
| Rainbow runner | 629 | $943 | $1.50 |
| Monchong | 215 | $490 | $2.28 |
| Wahoo | 572 | $1,282 | $2.24 |
| Bonita/skipjack tuna | 5,252 | $5,185 | $0.99 |
| Dogtooth tuna | 228 | $228 | $1.00 |
| Yellowfin tuna | 5,911 | $12,299 | $2.08 |
| Lobster | 184 | $600 | $3.25 |
| Octopus | 665 | $1,760 | $2.65 |
| TOTAL | 32,392 | $62,405 | $1.93 |

## Table C-8
## July 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Black jack | 955 | $2,173 | $2.27 |
| Jacks | 417 | $1,054 | $2.53 |
| Eel (Freshwater Old code) | 11 | $42 | $4.00 |
| Ehu (red snapper) | 97 | $388 | $4.00 |
| Gindai (flower snapper) | 148 | $574 | $3.87 |
| Grouper | 178 | $515 | $2.90 |
| Kalikali (pink snapper) | 61 | $184 | $3.00 |
| Lehi (silverjaw) | 13 | $45 | $3.50 |
| Onaga (red snapper) | 1,009 | $4,948 | $4.91 |
| Opakapaka (pink snapper) | 38 | $151 | $4.00 |
| Uku (gray snapper) | 613 | $1,497 | $2.44 |
| Amberjack | 164 | $395 | $2.41 |
| Reef fish | 7,892 | $22,945 | $2.91 |
| Rabbitfish | 17 | $26 | $1.50 |
| Mafute (emperor) | 1,155 | $2,978 | $2.58 |
| Snapper | 259 | $663 | $2.56 |
| Unicornfish | 1,404 | $3,774 | $2.69 |
| Barracuda | 185 | $361 | $1.95 |
| Mahi/dolphinfish | 581 | $649 | $1.12 |
| Marlin | 3,592 | $4,041 | $1.13 |
| Sailfish | 174 | $256 | $1.48 |
| Rainbow runner | 658 | $1,039 | $1.58 |
| Monchong | 328 | $742 | $2.26 |
| Wahoo | 688 | $1,549 | $2.25 |
| Bonita/skipjack tuna | 3,883 | $3,876 | $1.00 |
| Dogtooth tuna | 466 | $475 | $1.02 |
| Yellowfin tuna | 2,174 | $4,436 | $2.04 |
| Crabs (misc) | 12 | $35 | $3.00 |
| Lobster | 353 | $1,312 | $3.71 |
| Octopus | 723 | $1,864 | $2.58 |
| TOTAL | 28,246 | $62,985 | $2.23 |

## Table C-9
## August 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Unknown | 8 | $21 | $2.50 |
| Black jack | 256 | $591 | $2.31 |
| Jacks | 484 | $1,237 | $2.56 |
| Ehu (red snapper) | 55 | $205 | $3.75 |
| Gindai (flower snapper) | 102 | $408 | $4.00 |
| Grouper | 291 | $790 | $2.72 |
| Kalikali (pink snapper) | 149 | $450 | $3.02 |
| Lehi (silverjaw) | 243 | $910 | $3.75 |
| Onaga (red snapper) | 368 | $1,825 | $4.96 |
| Opakapaka (pink snapper) | 30 | $120 | $4.00 |
| Uku (gray snapper) | 121 | $285 | $2.36 |
| Amberjack | 38 | $101 | $2.65 |
| Reef fish | 8,349 | $24,588 | $2.95 |
| Wrasse | 442 | $1,215 | $2.75 |
| Rabbitfish | 6 | $16 | $2.45 |
| Mafute (emperor) | 382 | $990 | $2.59 |
| Parrotfish | 538 | $1,346 | $2.50 |
| Snapper | 87 | $241 | $2.76 |
| Unicornfish | 1,683 | $4,320 | $2.57 |
| Barracuda | 86 | $164 | $1.89 |
| Mahi/dolphinfish | 175 | $291 | $1.67 |
| Marlin | 2,599 | $2,544 | $0.98 |
| Sailfish | 101 | $126 | $1.25 |
| Rainbow runner | 428 | $805 | $1.88 |
| Monchong | 142 | $319 | $2.25 |
| Wahoo | 320 | $720 | $2.25 |
| Bonita/skipjack tuna | 1,860 | $2,179 | $1.17 |
| Dogtooth tuna | 104 | $139 | $1.34 |
| Yellowfin tuna | 615 | $1,194 | $1.94 |
| Crabs (misc) | 14 | $37 | $2.75 |
| Lobster | 314 | $1,154 | $3.68 |
| Octopus | 802 | $2,099 | $2.62 |
| TOTAL | 21,189 | $51,431 | $2.43 |

## Table C-10
## September 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Bigeye scad (atulai) | 329 | $1,122 | $3.41 |
| Black jack | 76 | $167 | $2.18 |
| Jacks | 258 | $611 | $2.37 |
| Milkfish | 12 | $32 | $2.57 |
| Ehu (red snapper) | 61 | $242 | $4.00 |
| Gindai (flower snapper) | 24 | $94 | $4.00 |
| Grouper | 300 | $793 | $2.64 |
| Kalikali (pink snapper) | 5 | $19 | $3.50 |
| Lehi (silverjaw) | 196 | $722 | $3.68 |
| Onaga (red snapper) | 406 | $2,032 | $5.00 |
| Opakapaka (pink snapper) | 111 | $436 | $3.92 |
| Uku (gray snapper) | 145 | $384 | $2.65 |
| Amberjack | 84 | $230 | $2.73 |
| Reef fish | 5,615 | $16,536 | $2.95 |
| Wrasse | 348 | $951 | $2.73 |
| Rabbitfish | 21 | $64 | $3.00 |
| Rudderfish (guilli) | 28 | $71 | $2.50 |
| Mafute (emperor) | 271 | $715 | $2.64 |
| Parrotfish | 215 | $560 | $2.61 |
| Snapper | 53 | $142 | $2.68 |
| Surgeonfish | 353 | $924 | $2.61 |
| Unicornfish | 2,322 | $6,203 | $2.67 |
| Barracuda | 66 | $118 | $1.77 |
| Mahi/dolphinfish | 474 | $899 | $1.90 |
| Marlin | 1,912 | $2,348 | $1.23 |
| Rainbow runner | 201 | $411 | $2.04 |
| Monchong | 38 | $85 | $2.25 |
| Wahoo | 558 | $1,232 | $2.21 |
| Bonita/skipjack tuna | 1,361 | $1,649 | $1.21 |
| Dogtooth tuna | 35 | $44 | $1.25 |
| Yellowfin tuna | 864 | $1,815 | $2.10 |
| Lobster | 291 | $1,092 | $3.75 |
| Octopus | 711 | $1,806 | $2.54 |
| TOTAL | 17,744 | $44,548 | $2.51 |

## Table C-11
## October 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Miscellaneous | 286 | $858 | $3.00 |
| Bigeye scad (atulai) | 45 | $129 | $2.88 |
| Black jack | 434 | $958 | $2.21 |
| Jacks | 162 | $412 | $2.54 |
| Napoleon Wrasse | 37 | $102 | $2.75 |
| Ehu (red snapper) | 72 | $281 | $3.88 |
| Gindai (flower snapper) | 104 | $397 | $3.84 |
| Grouper | 343 | $853 | $2.49 |
| Kalikali (pink snapper) | 6 | $18 | $3.00 |
| Lehi (silverjaw) | 268 | $954 | $3.56 |
| Onaga (red snapper) | 655 | $2,974 | $4.54 |
| Opakapaka (pink snapper) | 32 | $127 | $4.00 |
| Uku (gray snapper) | 176 | $424 | $2.41 |
| Amberjack | 189 | $538 | $2.84 |
| Reef fish | 6,961 | $20,501 | $2.95 |
| Wrasse | 346 | $908 | $2.63 |
| Rudderfish (guilli) | 78 | $194 | $2.50 |
| Mafute (emperor) | 391 | $1,045 | $2.67 |
| Parrotfish | 266 | $718 | $2.70 |
| Snapper | 11 | $29 | $2.75 |
| Surgeonfish | 109 | $272 | $2.50 |
| Unicornfish | 2,879 | $7,458 | $2.59 |
| Barracuda | 184 | $343 | $1.87 |
| Mahi/dolphinfish | 5,856 | $8,609 | $1.47 |
| Marlin | 1,152 | $1,079 | $0.94 |
| Rainbow runner | 459 | $831 | $1.81 |
| Monchong | 198 | $412 | $2.08 |
| Wahoo | 2,803 | $5,221 | $1.86 |
| Bonita/skipjack tuna | 1,802 | $2,283 | $1.27 |
| Dogtooth tuna | 294 | $353 | $1.20 |
| Yellowfin tuna | 2,987 | $6,289 | $2.11 |
| Lobster | 366 | $1,337 | $3.65 |
| Octopus | 543 | $1,391 | $2.56 |
| TOTAL | 30,494 | $68,298 | $2.24 |

## Table C-12
## November 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Unknown | 56 | $141 | $2.50 |
| Bigeye scad (atulai) | 605 | $1,743 | $2.88 |
| Jacks | 88 | $224 | $2.54 |
| Napoleon Wrasse | 89 | $234 | $2.63 |
| Milkfish | 25 | $62 | $2.50 |
| Grouper | 5 | $14 | $3.00 |
| Onaga (red snapper) | 54 | $268 | $5.00 |
| Opakapaka (pink snapper) | 2 | $7 | $3.00 |
| Uku (gray snapper) | 126 | $298 | $2.36 |
| Reef fish | 6,373 | $18,764 | $2.94 |
| Rudderfish (guilli) | 35 | $104 | $3.00 |
| Mafute (emperor) | 39 | $100 | $2.57 |
| Snapper | 29 | $74 | $2.50 |
| Unicornfish | 1,944 | $5,142 | $2.65 |
| Barracuda | 26 | $48 | $1.81 |
| Mahi/dolphinfish | 7,888 | $11,594 | $1.47 |
| Marlin | 526 | $802 | $1.53 |
| Sailfish | 141 | $176 | $1.25 |
| Rainbow runner | 228 | $396 | $1.74 |
| Monchong | 88 | $175 | $2.00 |
| Wahoo | 6,545 | $12,080 | $1.85 |
| Bonita/skipjack tuna | 3,559 | $4,062 | $1.14 |
| Dogtooth tuna | 25 | $25 | $1.00 |
| Yellowfin tuna | 1,865 | $4,376 | $2.35 |
| Lobster | 54 | $199 | $3.70 |
| Octopus | 195 | $441 | $2.26 |
| TOTAL | 30,610 | $61,549 | $2.01 |

## Table C-13
## December 2005 Estimated Commercial Landings

| Species | Pounds | Value | Price/Lb. |
|---|---|---|---|
| Fillets | 19 | $42 | $2.25 |
| Jacks | 122 | $307 | $2.51 |
| Napoleon Wrasse | 65 | $180 | $2.75 |
| Gindai (flower snapper) | 48 | $191 | $4.00 |
| Grouper | 33 | $95 | $2.90 |
| Kalikali (pink snapper) | 26 | $93 | $3.50 |
| Lehi (silverjaw) | 25 | $89 | $3.50 |
| Onaga (red snapper) | 544 | $2,718 | $5.00 |
| Uku (gray snapper) | 26 | $68 | $2.64 |
| Amberjack | 212 | $635 | $3.00 |
| Reef fish | 5,328 | $15,722 | $2.95 |
| Rabbitfish | 364 | $1,091 | $3.00 |
| Rudderfish (guilli) | 192 | $573 | $2.98 |
| Mafute (emperor) | 82 | $230 | $2.81 |
| Parrotfish | 66 | $198 | $3.00 |
| Snapper | 88 | $220 | $2.51 |
| Surgeonfish | 223 | $635 | $2.85 |
| Unicornfish | 3,111 | $8,741 | $2.81 |
| Goatfish | 112 | $279 | $2.50 |
| Troll fish | 18 | $36 | $2.00 |
| Barracuda | 258 | $501 | $1.94 |
| Mahi/dolphinfish | 7,391 | $11,454 | $1.55 |
| Marlin | 229 | $354 | $1.54 |
| Spearfish | 12 | $15 | $1.25 |
| Sailfish | 304 | $367 | $1.21 |
| Rainbow runner | 240 | $468 | $1.95 |
| Wahoo | 4,958 | $10,055 | $2.03 |
| Bonita/skipjack tuna | 1,005 | $1,384 | $1.38 |
| Dogtooth tuna | 241 | $348 | $1.44 |
| Yellowfin tuna | 1,366 | $3,149 | $2.30 |
| Lobster | 311 | $585 | $1.88 |
| Octopus | 109 | $274 | $2.50 |
| TOTAL | 27,126 | $61,095 | $2.25 |

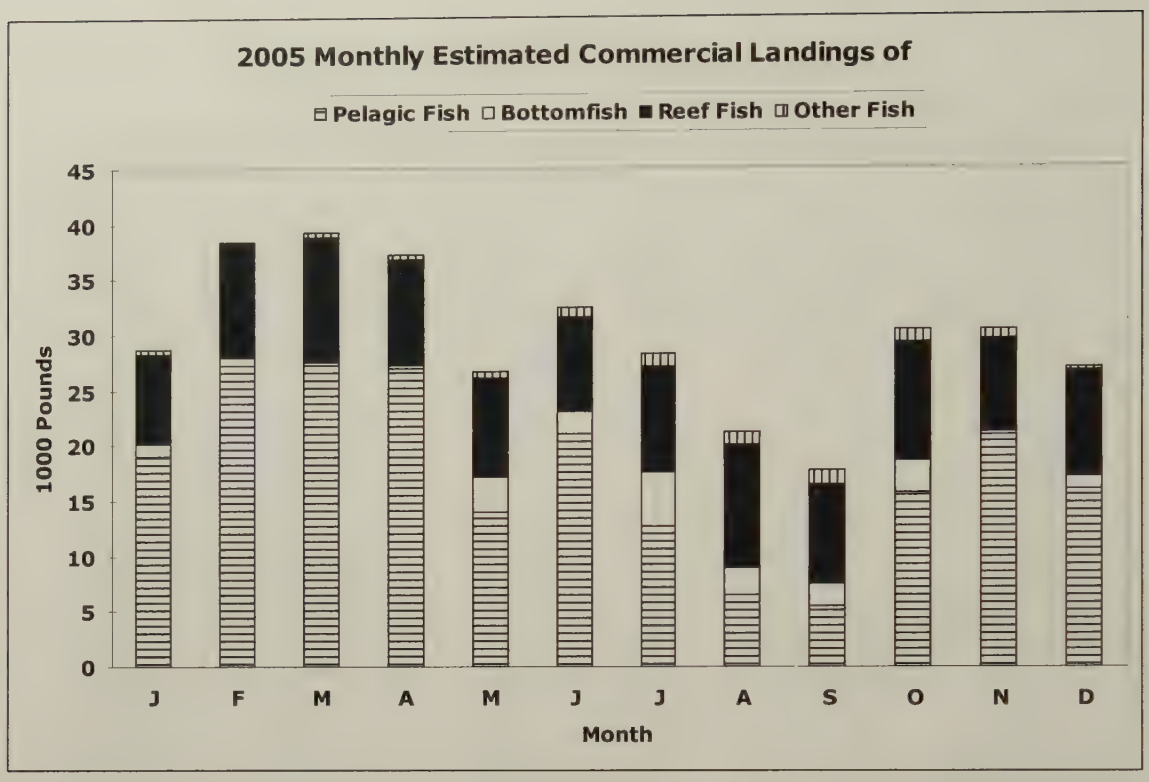



Figure C-1-1

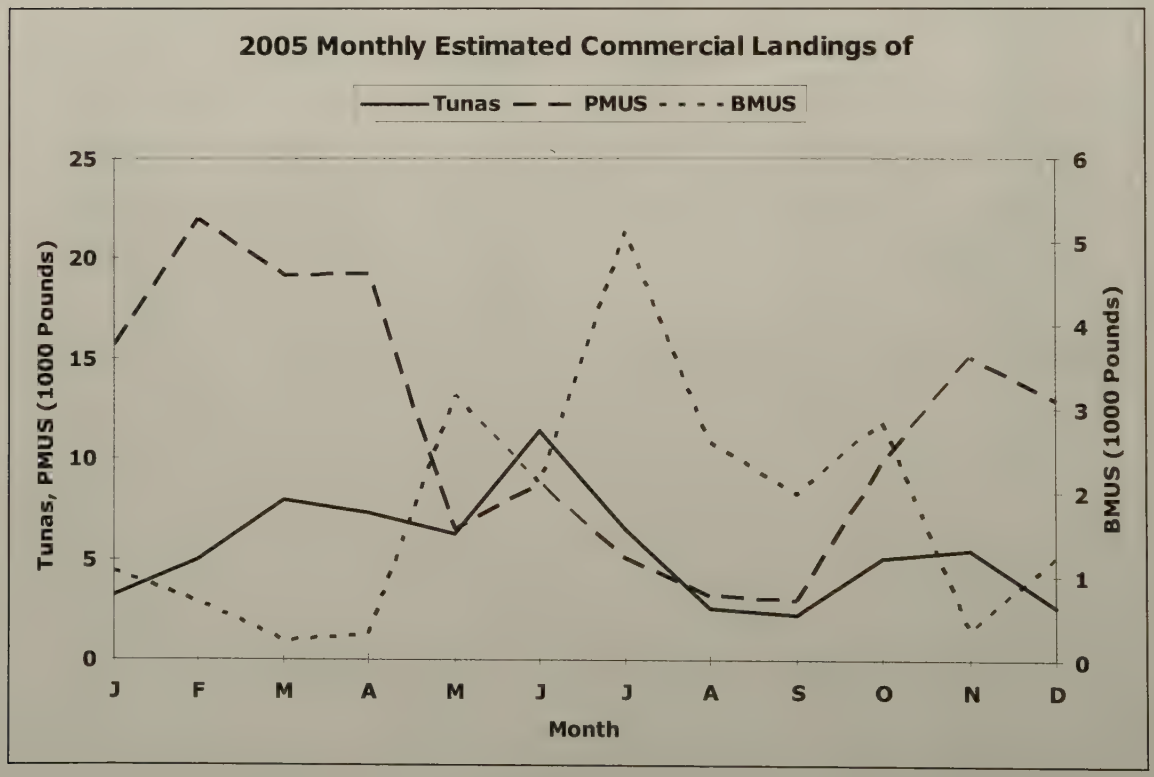
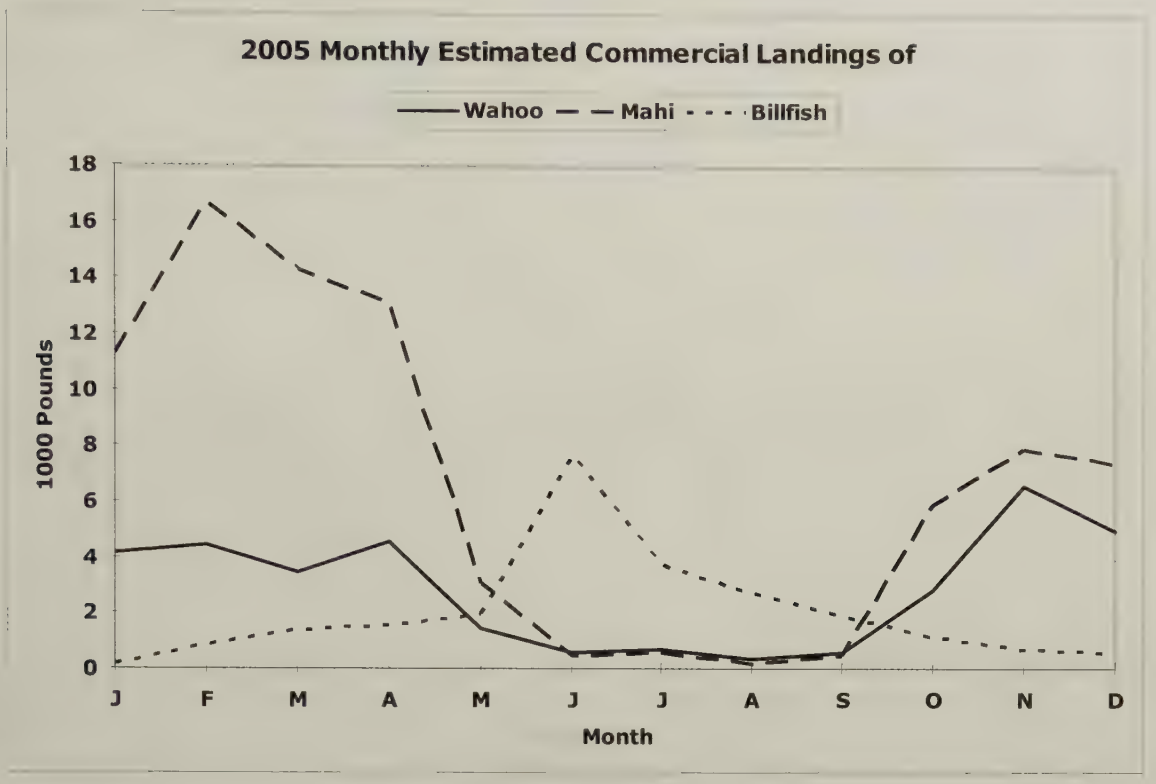



Figure C-1-2

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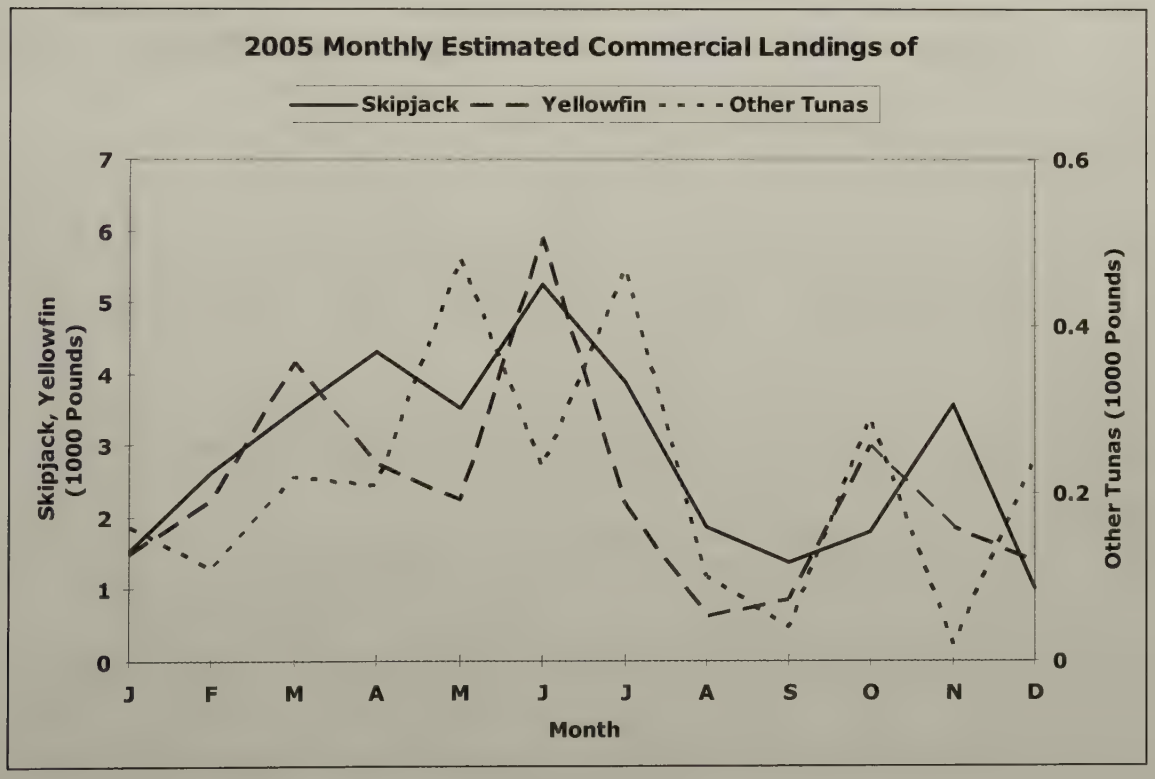


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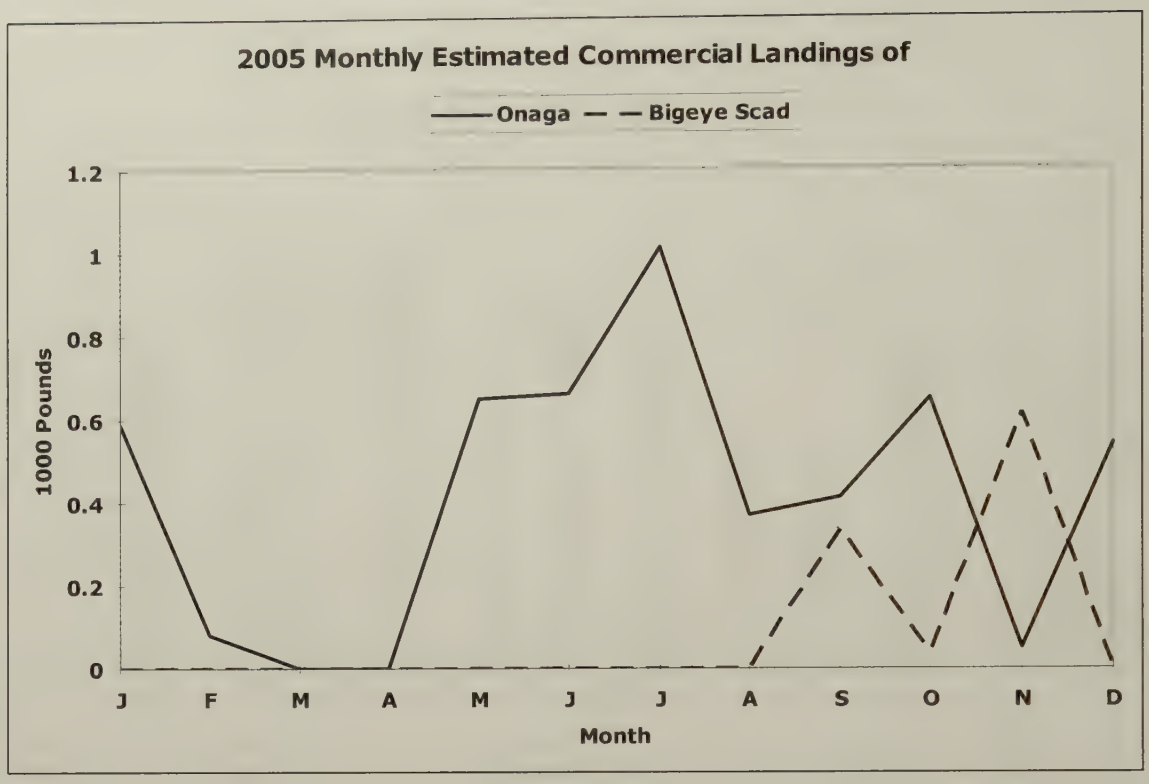


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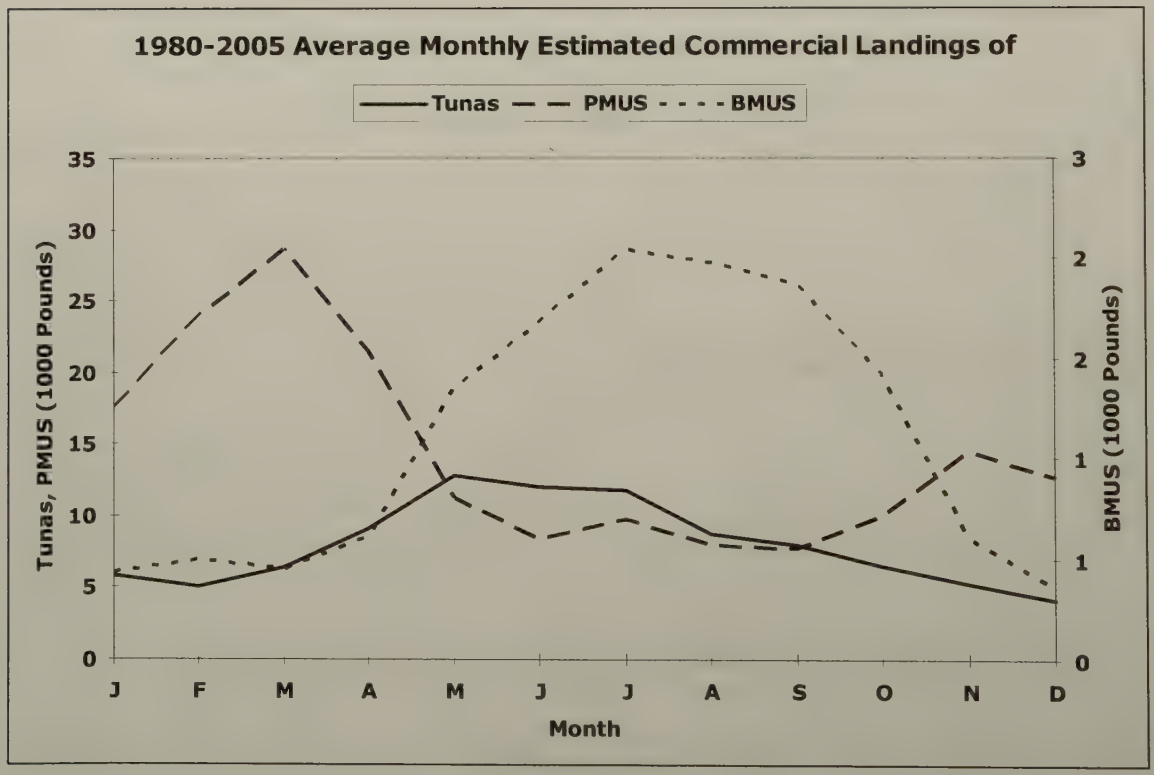


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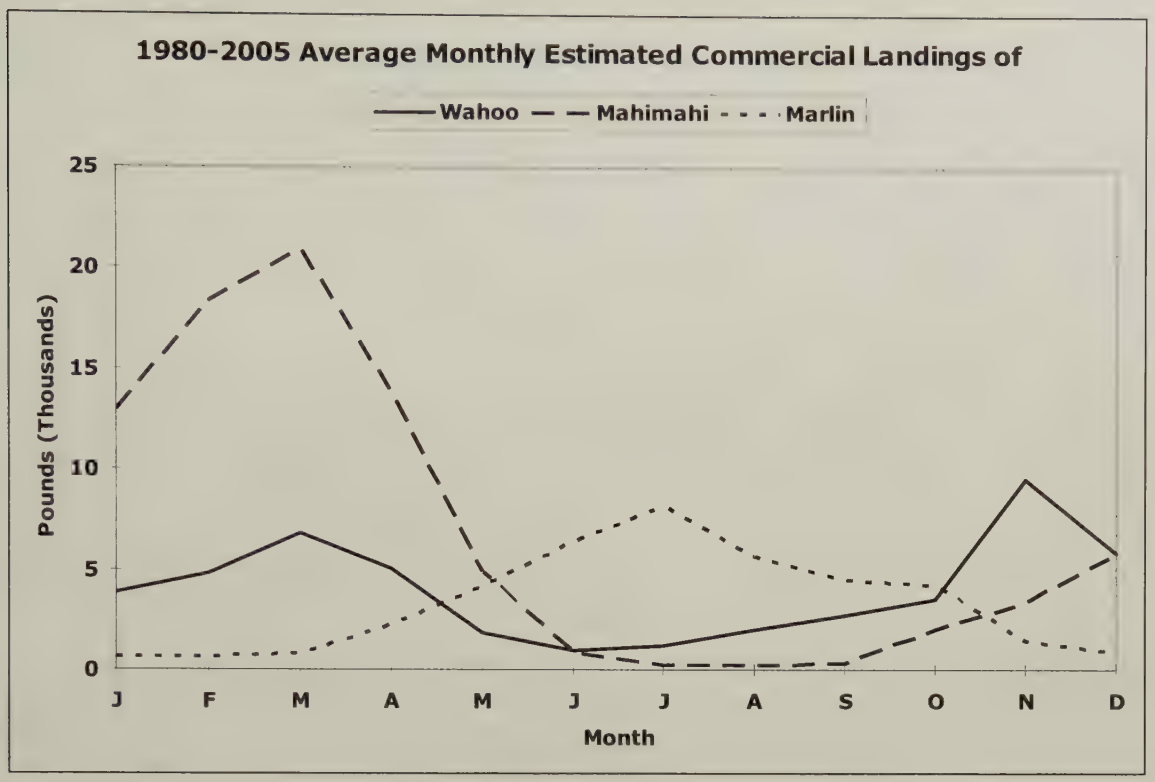


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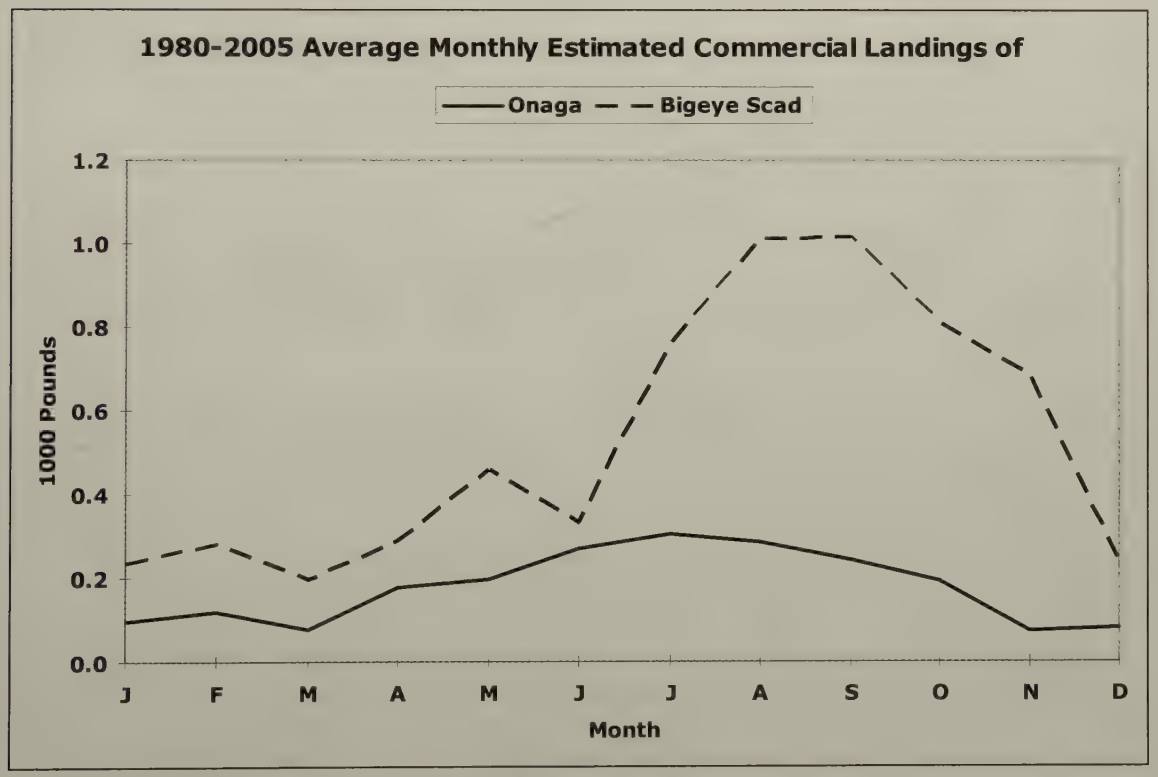


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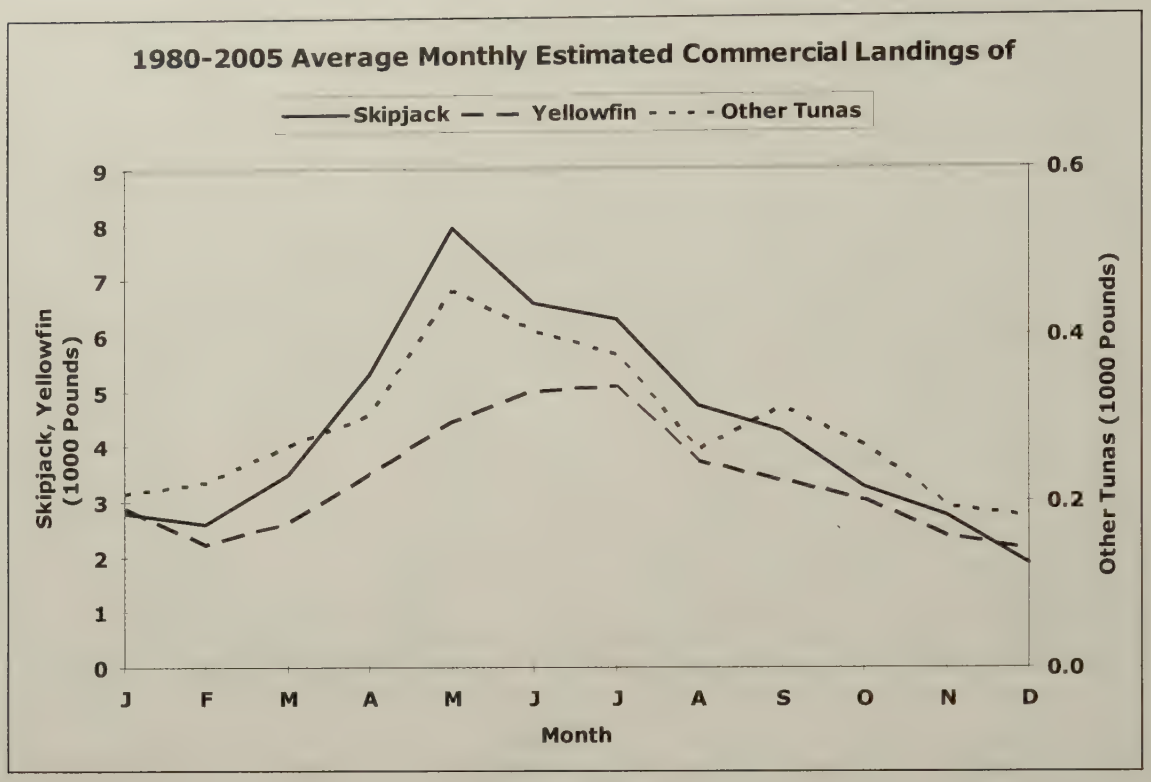


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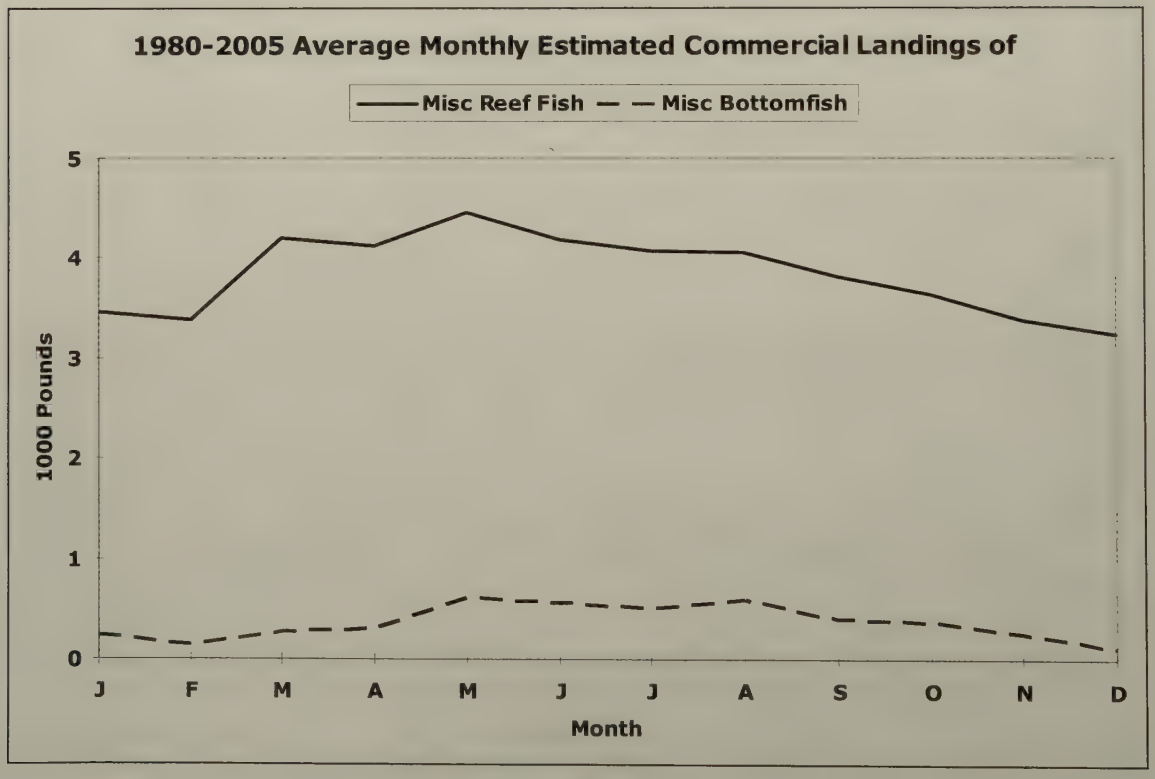


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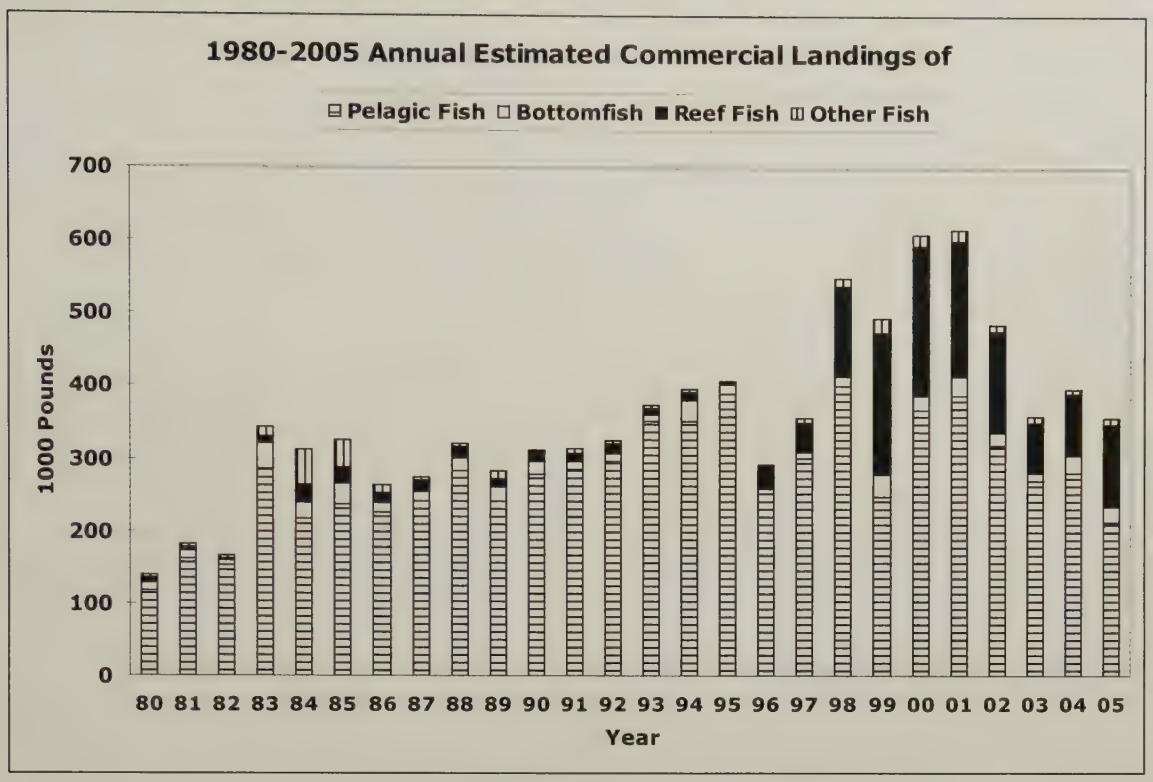


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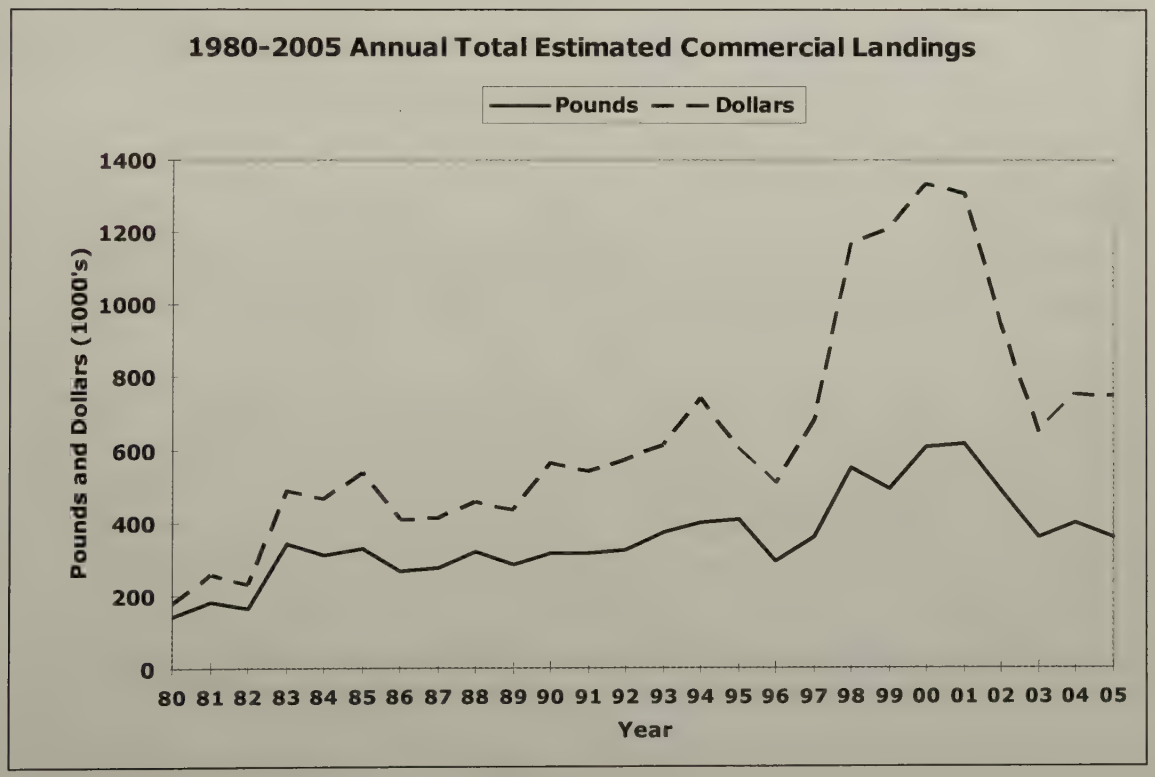


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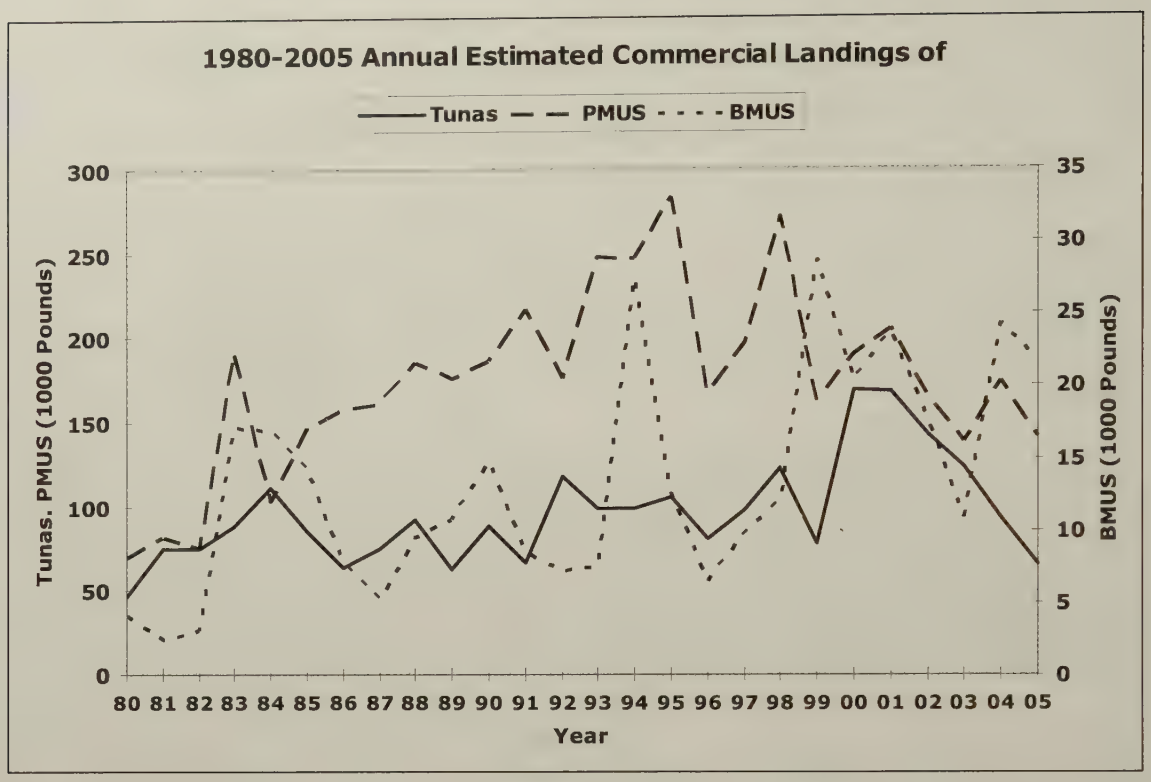


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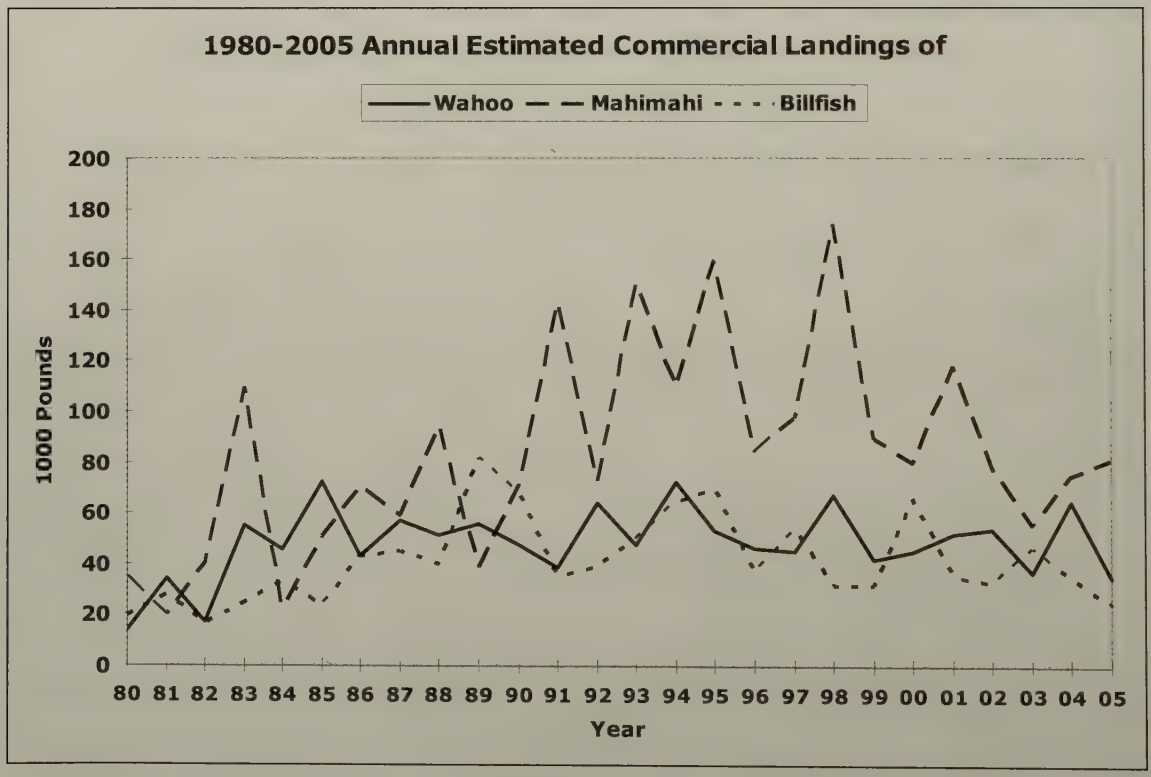


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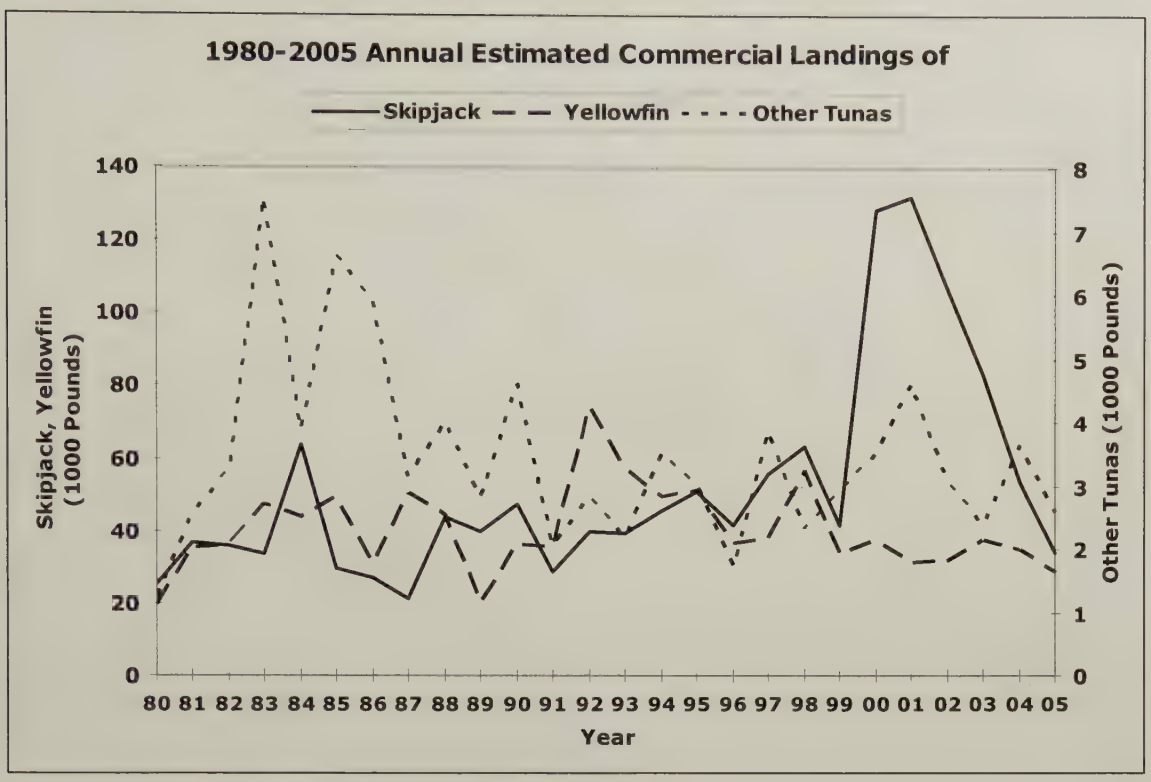


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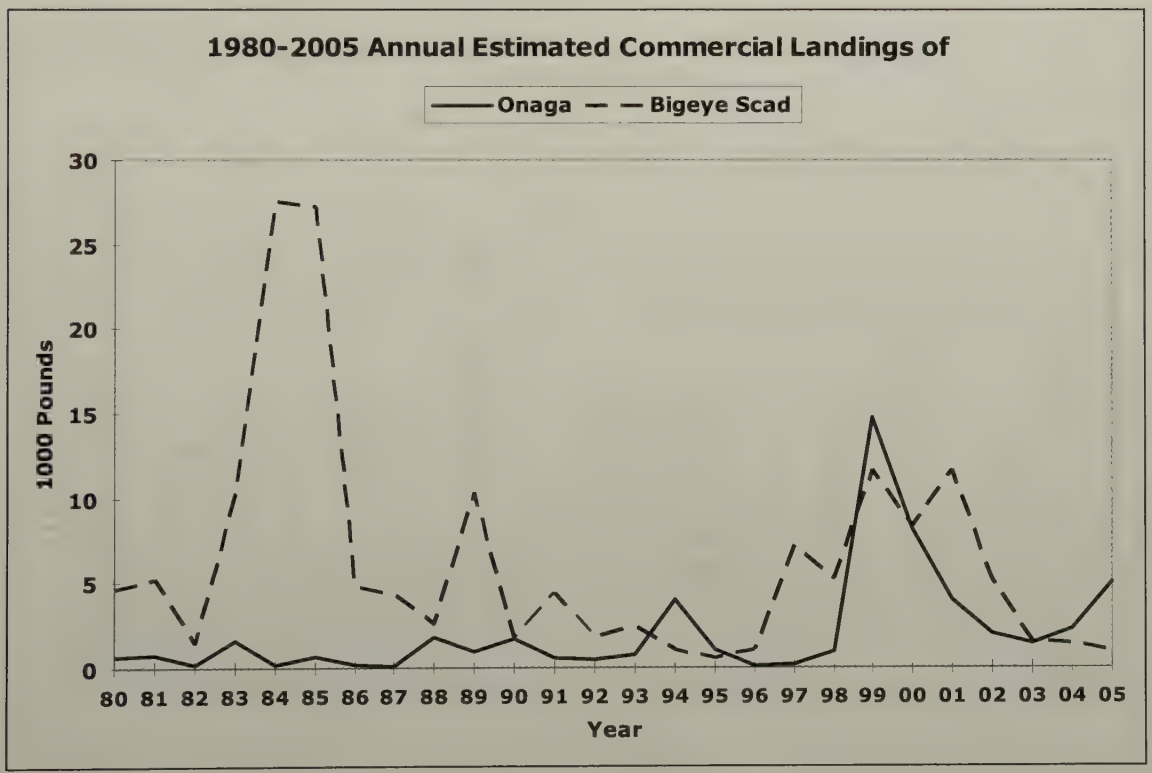


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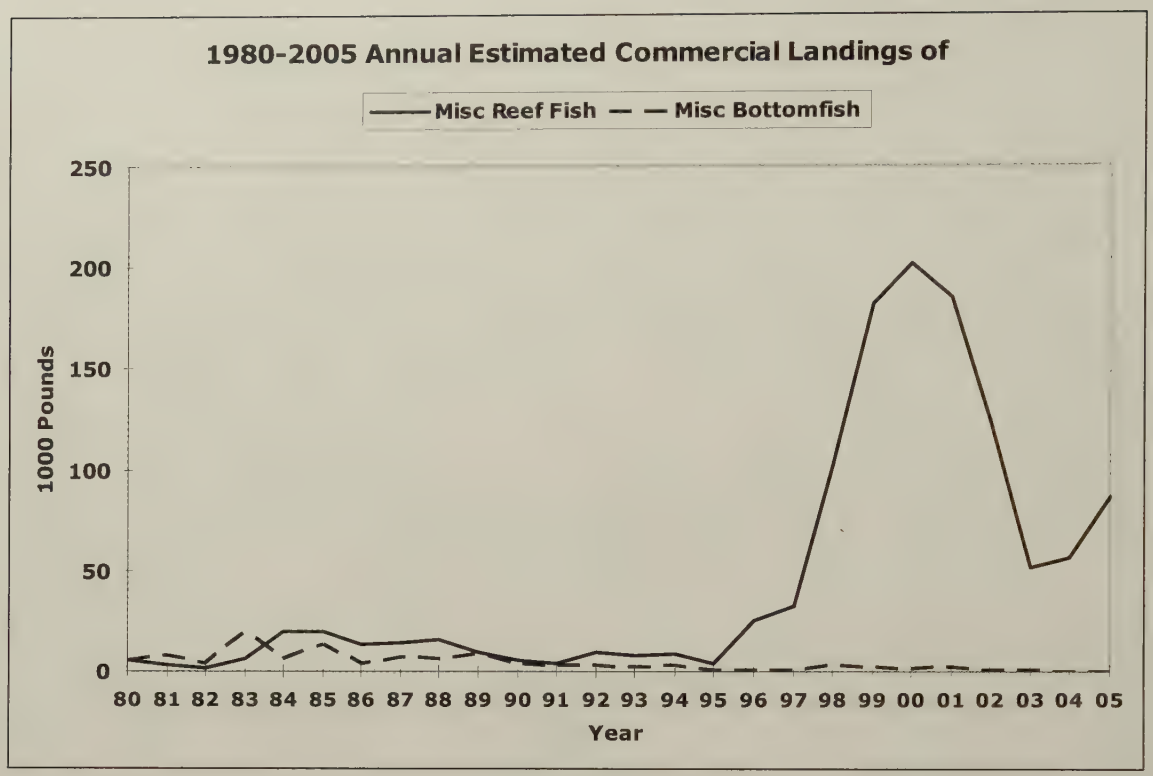


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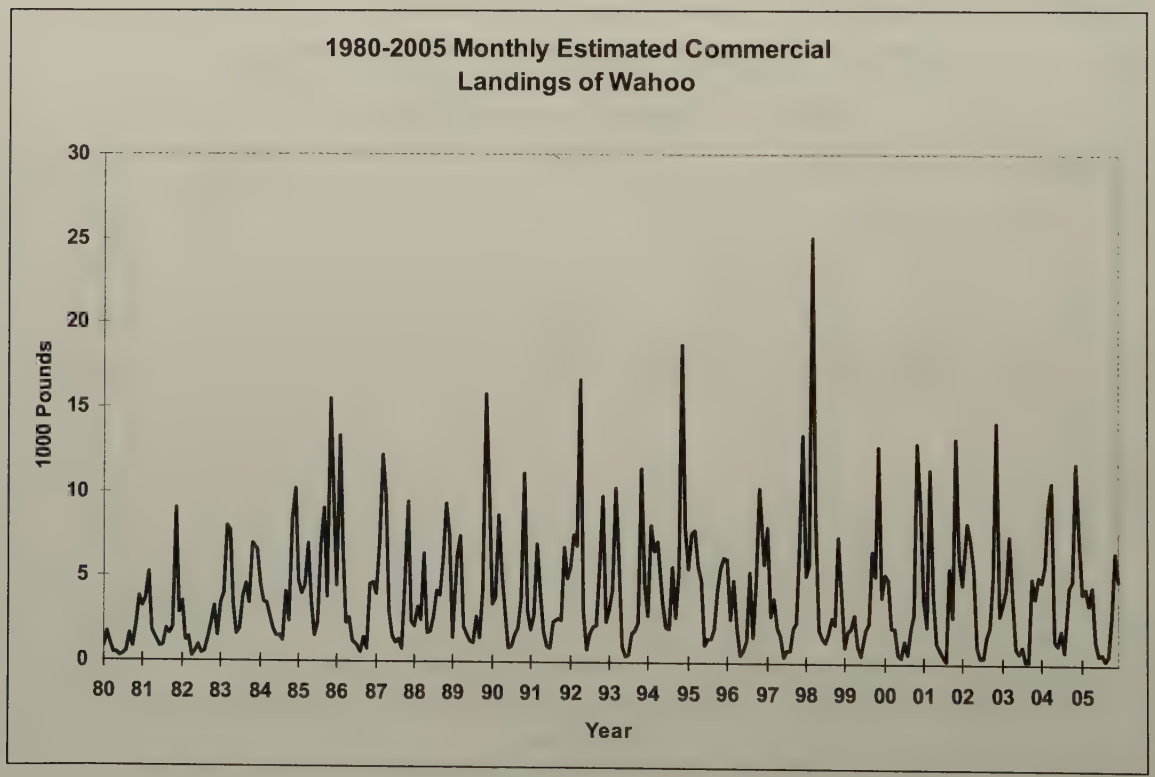


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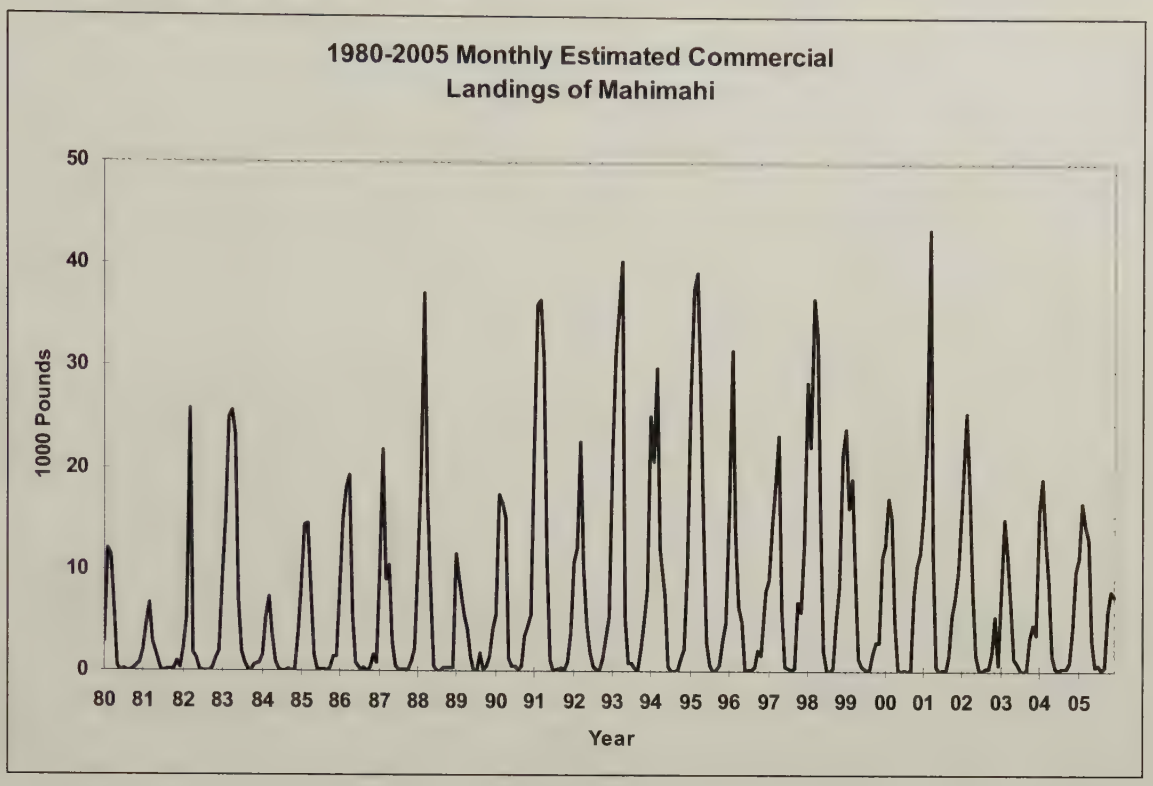


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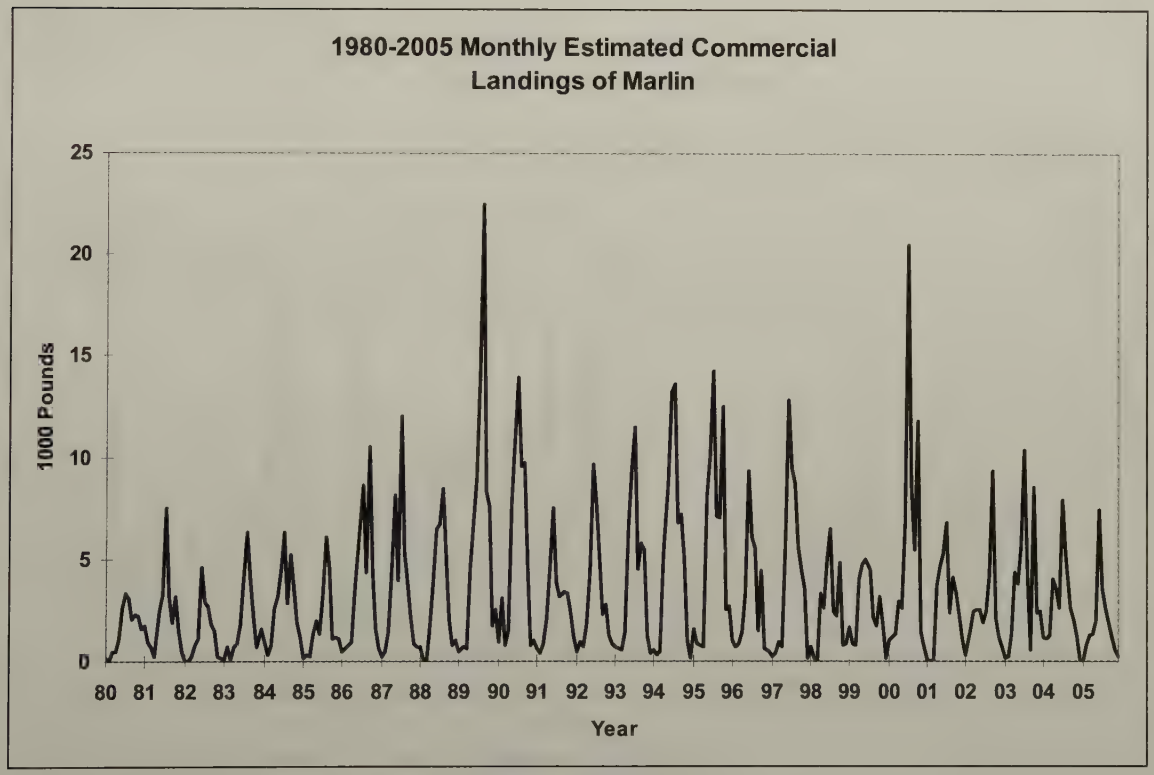


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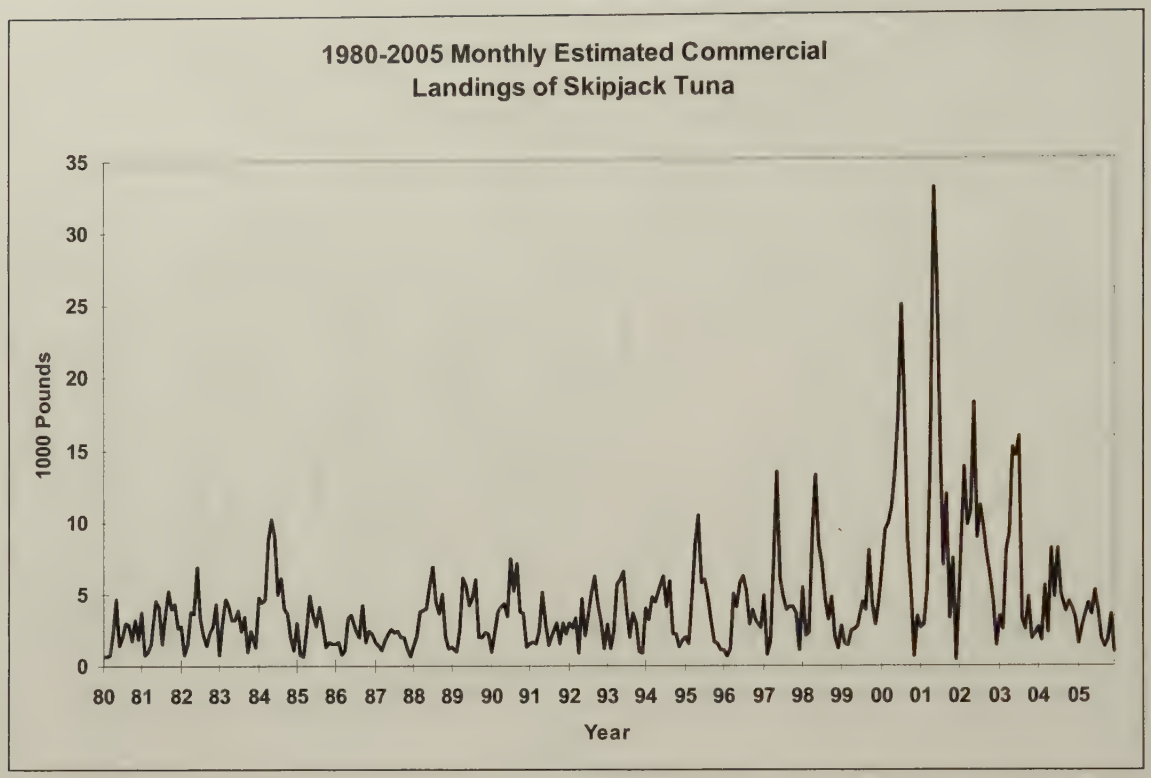


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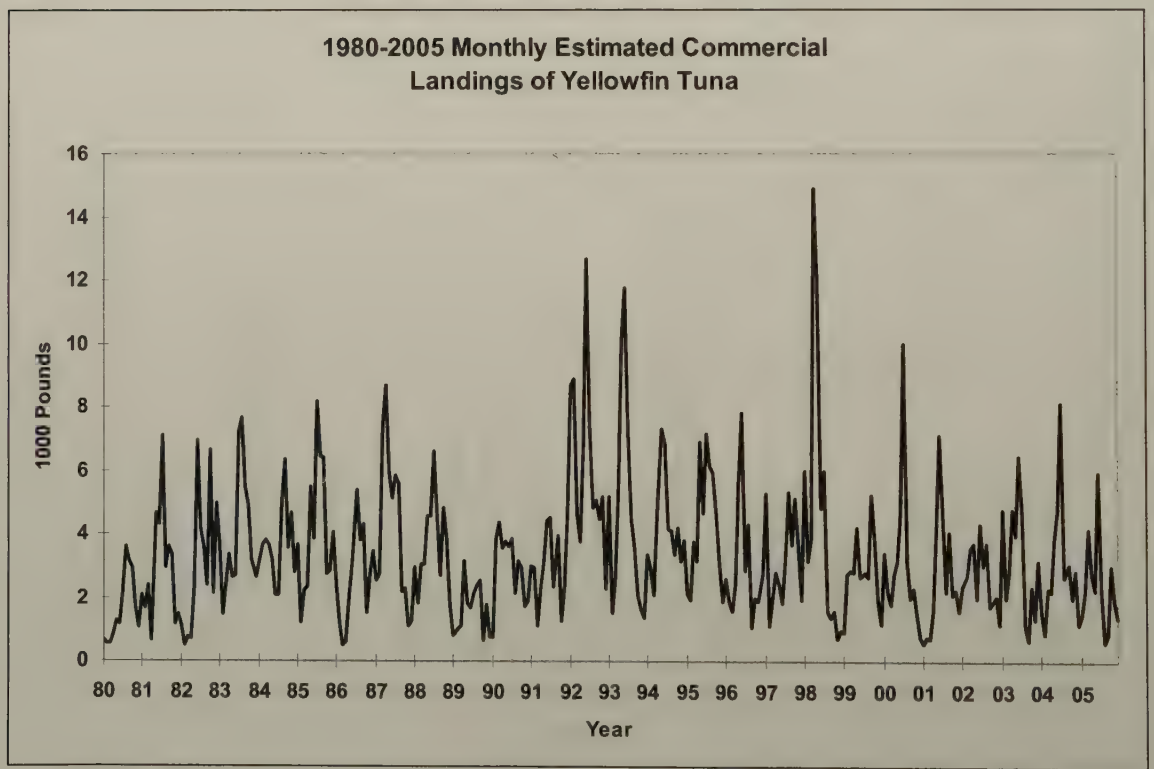


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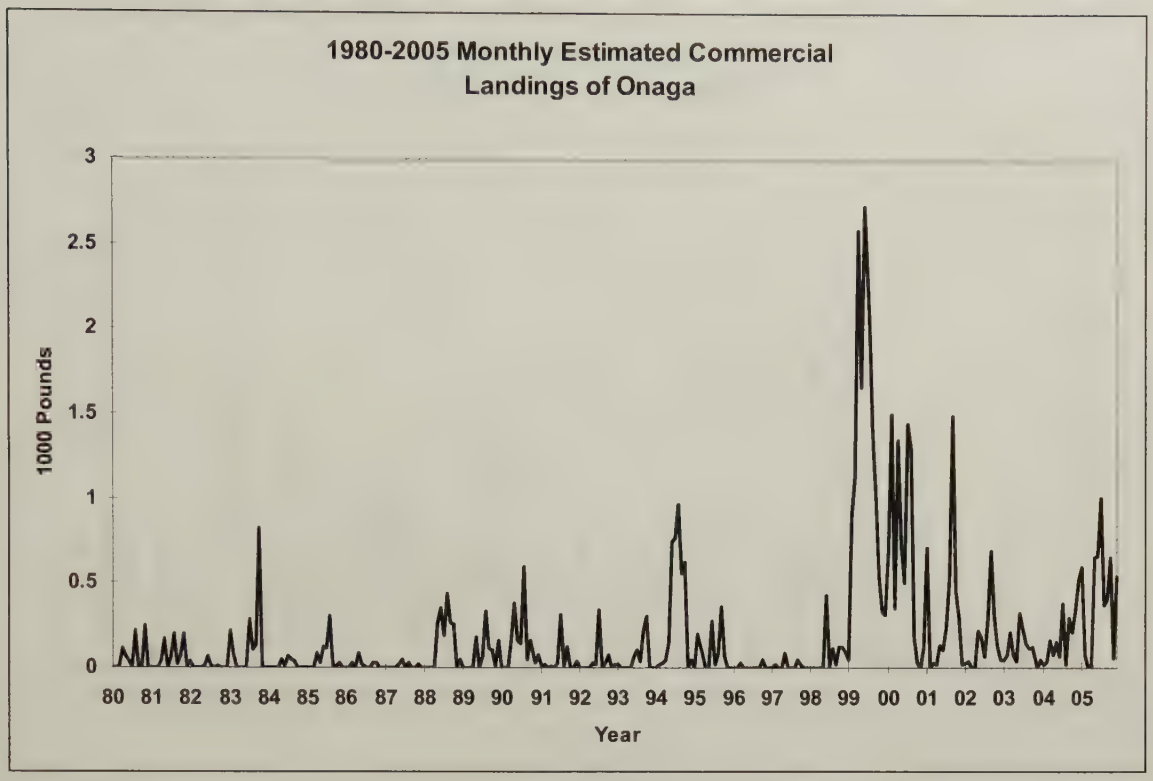


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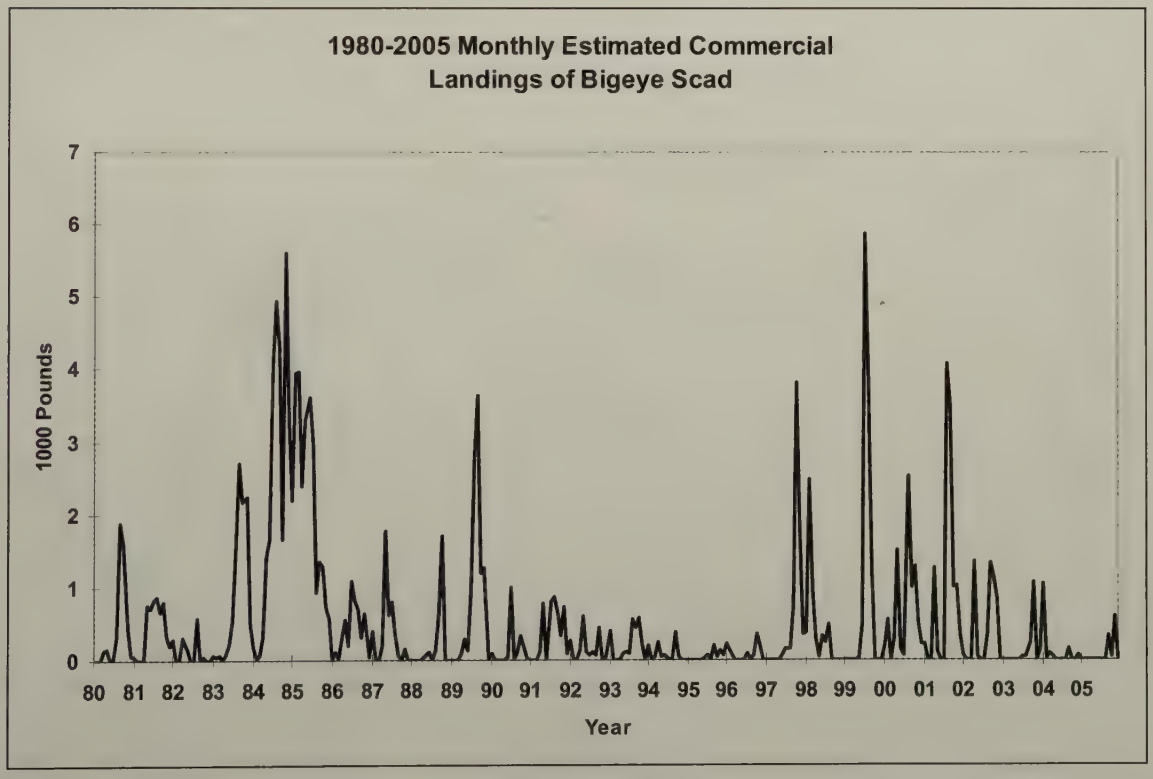


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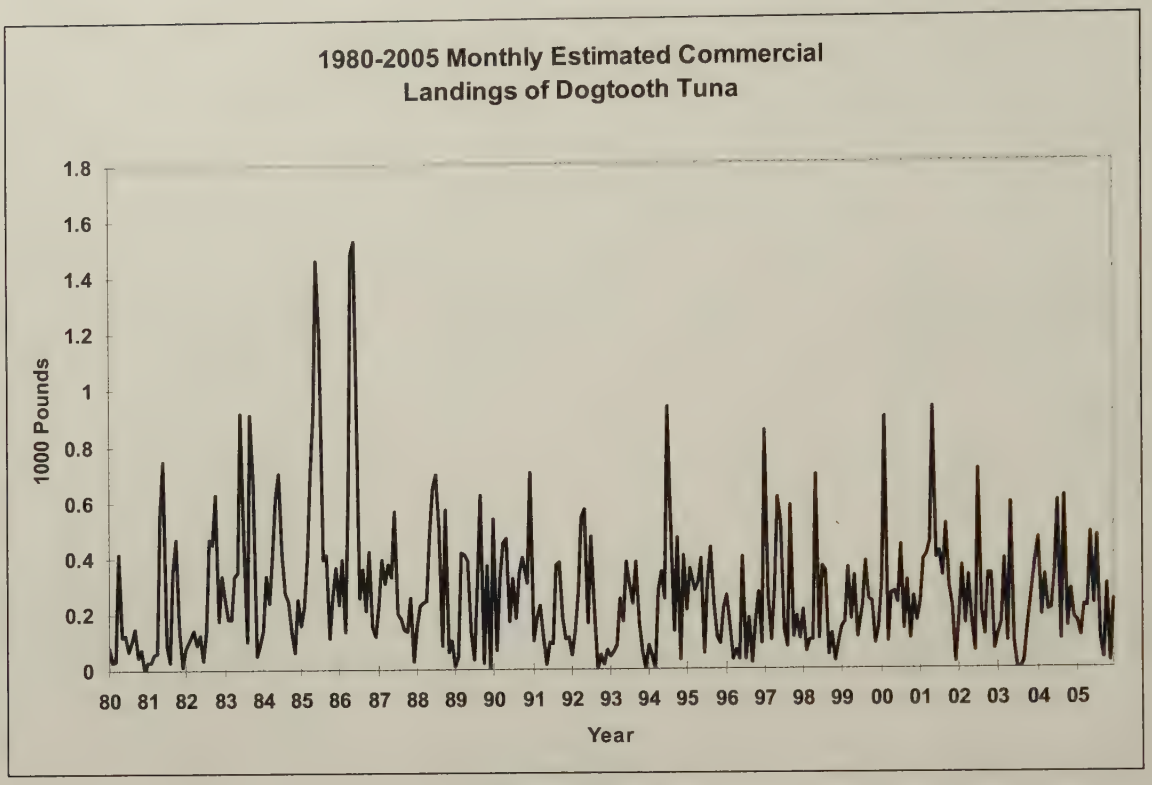


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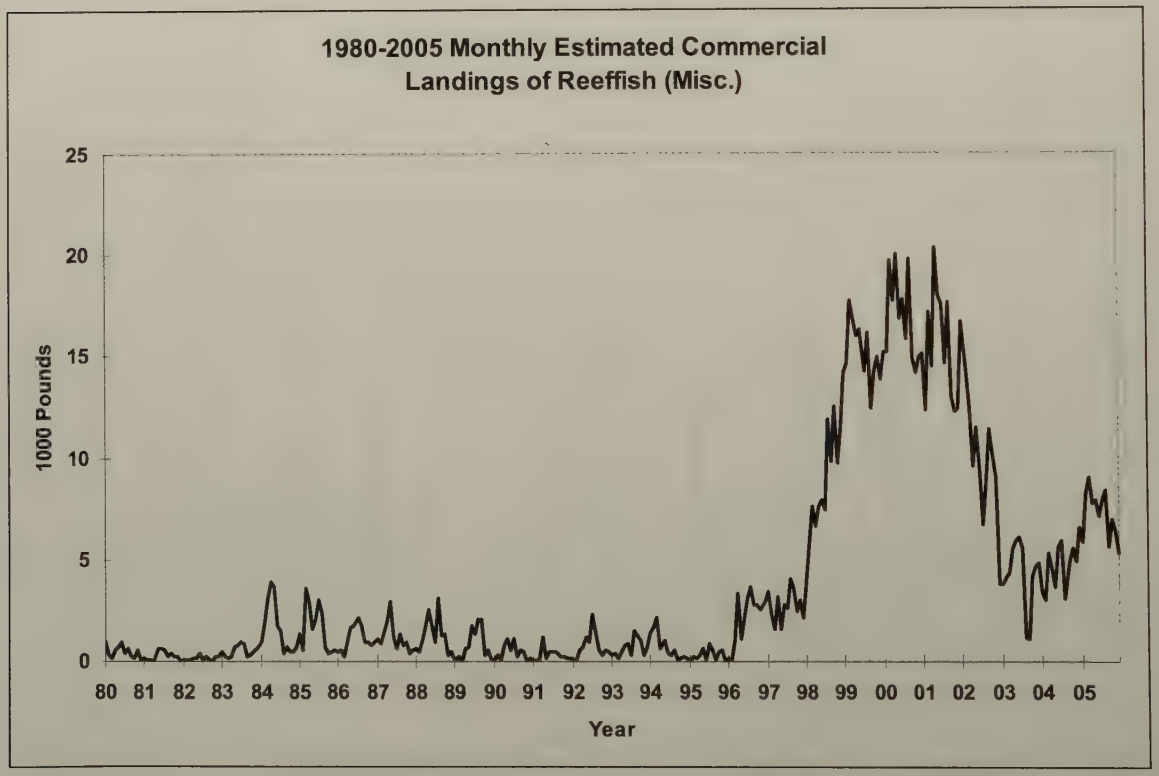


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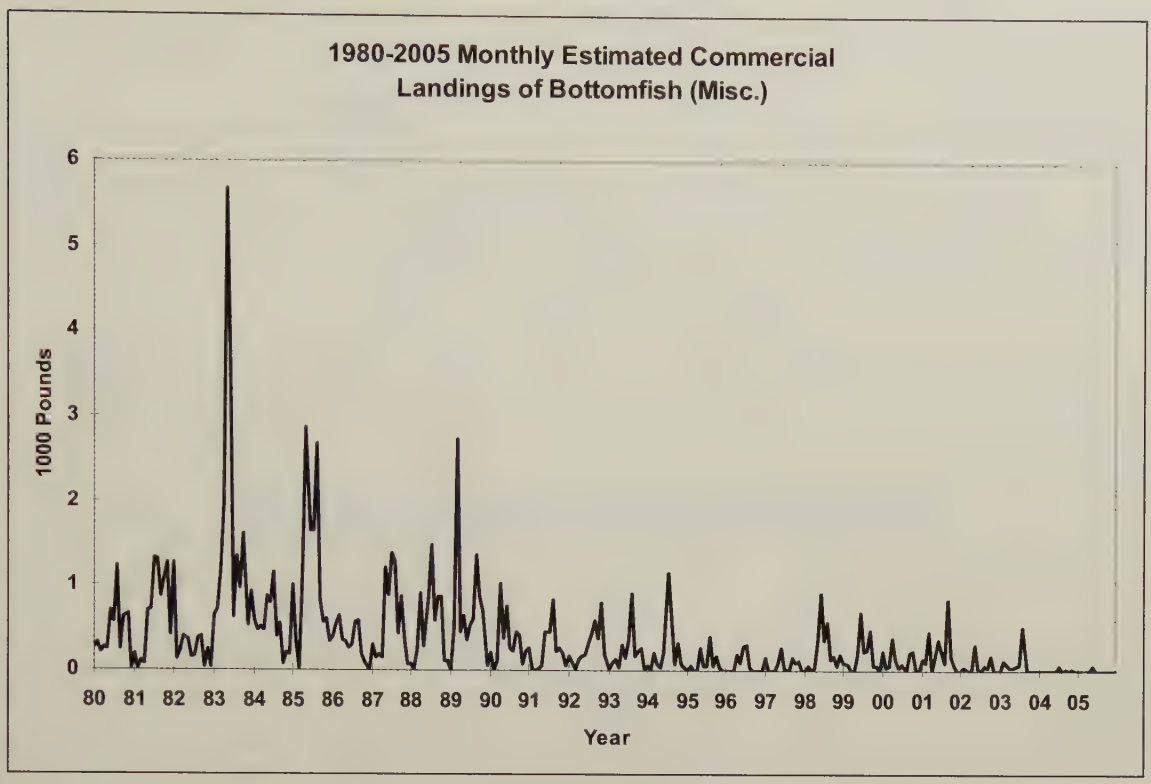
1980-2005 Monthly Estimated Commercial Landings of Bottomfish (Misc.)
1000 Pounds
0
1
2
3
4
5
6
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
Year

Figure C-4-10

# STATE OF HAWAII 2005 FISHERY STATISTICS

Compiled by

Division of Aquatic Resources

and the

Western Pacific Fishery Information Network

July 2007

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# STATE OF HAWAII 2005 FISHERY STATISTICS

## INTRODUCTION

The Hawaiian Archipelago stretches northwestward over 1500 miles.

*Location*: 19° N latitude, 155° W longitude to about 28° N latitude and 178° W longitude
*Islands*: Hawaii, Maui, Lanai, Molokai, Oahu, Kauai, and Niihau (comprise over 99% of the total land area)
*Population*: 1,286,000 (*The State of Hawaii Data Book, 2006 Update*)
*Commercial Catch Breakdown (lbs)*: 84% on Oahu, 13% on Hawaii (Big Island), 2% on Maui, and 1% or less on other islands

Hawaiian Islands; copied and modified from: http://satftp.soest.hawaii.edu/space/hawaii/maps/All_Islands_map.710x509.gif; *SOEST Satlab Server*

The fisheries of the State of Hawaii are quite diverse; they vary from shore-based algae harvesting by hand to large-vessel fisheries such as longlining and lobster fishing. There are several major fisheries: tuna fishing through various methods, lobster trapping, hook-and-line bottomfishing for the grouper-snapper-jack complex, net fishing for species such as the bigeye scad, and trolling for such pelagic species as marlin, wahoo, and mahimahi.

In 2001, prohibitions were placed on landing shark fins without their associated carcasses and on making shallow-sets with longline gear to target swordfish. Shark and swordfish catches dropped dramatically, and longline effort significantly shifted from swordfish to tunas.

In 2004, the swordfish fishery was reopened due to new technology that reduced sea turtle bycatch. With the reopening, new regulations were implemented that required fishing vessels to have a shallow-set certificate for each deployment of shallow-set longline fishing gear. A limited number of certificates were made available for purchase each year. In addition, the swordfish fishery would close for the remainder of the year if the number of allowable interactions with leatherback (16) or loggerhead (17) sea turtles was reached.

Commercial fishing (i.e., selling catches or providing charter fishing services) in Hawaii requires purchasing a commercial marine fishing license. In 2005, there were 4,242 licensed commercial fishers. The summary 2005 data were created from a combination of Hawaii Division of Aquatic Resources' (HDAR) fishers and dealer reporting forms processed

through their Dealer Reporting System (DRS) and Fisherman Reporting System (FRS) as well as fishery reporting forms (including federal longline logbooks). It is believed to represent over 95% of what may eventually be submitted and processed.

## DATA COLLECTING SYSTEM

Previously, data processed in the Reported Landings tables and charts presented in this section were collected from various Fishermen's Reporting System (FRS) Forms. Beginning in October 2002, HDAR implemented several new FRS forms that no longer required sales information reporting as a trade-off for requiring improved catch, effort, and bycatch statistics. The FRS was modified to accommodate these new forms.

The Dealer Reporting System (DRS) was computerized in 2000 and is now a major source of sales data used to create the tables and charts. Data from the NOAA Fisheries Longline Logbook Program are integrated with DRS and FRS data to create the "best available" summaries presented in this report.

Dealers are required by State law to submit a Commercial Marine Dealer's Report for each month that they are in the business of purchasing marine life. Information collected includes

- Dealer Name
- Dealer Number
- Month and Year
- Date
- First and Last Name from Whom Fish was Bought
- Fisherman's Commercial Marine License Number
- Species Bought
- Pounds Bought
- Pieces Bought
- Amount Paid
- Condition

Likewise, all holders of a Commercial Marine License (CML) are required by state law to report on their fishing activity. The majority of commercial fishers use the "Monthly Fishing Report," a replacement for the old General Fish Catch Report (C-3 Form). This form collects data on fishing catch and effort for each day, method, and area fished, and it is processed in the FRS. Information collected includes

- Fisherman's Name and Commercial License Number
- Boat's Name and its Registration/USCG Number
- Month and Year Fished
- Day Fished
- Charter Trip (y/n)
- Buoy or Area Fished
- Fishing Method
- Hours Fished per Method/Area
- Number of Net Sets
- Number of Fishing Lines, Traps, or Net Length
- Port of Landing
- Species Name
- Number Landed
- Pounds Landed
- Number Lost
- Number Released

Other FRS data collection forms include the Net, Trap and Dive Activity Report, Tuna Handline Trip Report, Deep Sea Handline Trip Report, Aku Boat Report, NWHI Bottomfish Trip Sales Report, and NWHI Bottomfish Trip Daily Log. Commercial collectors of tropical marine fish are required to have an aquarium permit in addition to their commercial marine license, and they are required to report monthly on the C-6 Aquarium Fish Catch Report. Aquarium fish catches, however, are not included in this report's statistics.

The assumption is made that the data submitted by fishers are complete and accurate. The HDAR continually attempts to improve the quality of data and decrease the time delays in receiving and processing the data.

No real measurement is available for what percent of the total commercial catch is actually reported to HDAR via fishers and dealers, but estimates have ranged from about 10% to more than 99%, depending on the species and fishery. The overall percent coverage was probably over 80% for all commercial fisheries combined in 2005.

## DATA PROCESSING SYSTEM

When HDAR receives various data reporting forms, staff code and edit the data before keypunching. Forms that fail initial editing are returned for correction and resubmission, or minor problems may be cleared up over the telephone. Delinquency notices are sent to those who fall more than a few months behind in their reporting. Once the data are keypunched, HDAR staff use computer-generated reports to verify and correct errors in the database. When the database is considered to be reasonably complete and error free, it is ready for use in producing various summary catch reports.

## DATA REPORTING SYSTEM

More than 150 marine species and species groups are recorded in HDAR's monthly landings reports, many of which are insignificant in the total catch. To help reduce this document's size and improve the usability of the tables, WPacFIN staff combined some of the less important species, reorganized the order of presentation, created a new species coding system, and translated all records in the database. The new coding system has 100 species and species groups based on flexible ecological and phylogenetic criteria. All of the commercially important pelagic and bottomfish species or unique species groups have individual codes and are reported separately. Marine pond catches are included in the species totals, but make up less than 0.4% of the total landings for each year.

The monthly and annual reports included in this document contain the common name, pounds caught, pounds sold, value rounded to the nearest dollar, and the average price per pound for each species. Pounds caught data is from the Longline Logbooks, Dealer Reports, and Fisherman Catch Reports; the pounds sold, value and price/pound data is from Dealer Reports. Each monthly report contains a subtotal for the sum of all species for that month.

Several types of graphs are also included. Please note that some of the charts in this volume are new or modified from earlier volumes. More up-to-date tables and charts are available at the WPacFIN Website at <http://www.pifsc.noaa.gov/wpacfin>.

The following species, species groups, and abbreviations are used in the tables and graphs of Hawaii's fishery statistics:

*Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

I. Pelagic Management Unit Species (PMUS)

| | |
|---|---|
| Mahimahi (dolphin) | Wahoo |
| Blue marlin | Black marlin |
| Striped marlin | Shortnose spearfish |
| Sailfish | Broadbill swordfish |
| Sharks | Billfish (misc) |

II. Bottomfish Management Unit Species (BMUS)

| | |
|---|---|
| Deep water jacks (misc) | Amberjack |
| Pig-lipped ulua (jack) | White ulua |
| Hawaiian grouper | Blue-lined snapper |
| Ehu (red snapper) | Gindai (flower snapper) |
| Kalekale (pink snapper) | Lehi (silverjaw snapper) |
| Onaga (long-tailed snapper) | Opakapaka (pink snapper) |
| Uku (gray snapper) | Snappers |

III. Billfish

| | |
|---|---|
| Billfish | Blue marlin |
| Black marlin | Striped marlin |
| Shortnose spearfish | Sailfish |
| Broadbill swordfish | |

IV. Tunas

| | |
|---|---|
| Other tunas | Skipjack tuna |
| Yellowfin tuna | Albacore |
| Bigeye tuna | |

V. Other Tunas

| | |
|---|---|
| Miscellaneous tunas | Bluefin tuna |
| Frigate tuna | Kawakawa |

VI. Fisheries Categories

A. Pelagic Species

All PMUS and tuna species including the following:

| | |
|---|---|
| Rainbow runner | Barracuda |
| Japanese mackerel | Frigate tuna |
| Ocean sunfish | Ocean moonfish |

B. Bottomfish

All BMUS plus the following:

| | |
|---|---|
| Blue crevally | Dobe ulua |
| Paapaa ulua | Blue spot grouper |
| Porgy | |

C. Reef Fish

| | |
|---|---|
| Reef jacks (misc) | Squirrelfish |
| Trumpetfish | Scorpionfish |
| Mountain bass | Bigeyes |
| Cardinalfish | Goatfish |
| Rudderfish | Butterflyfish |
| Damselfish | Hawkfish |
| Tipapia | Wrasse |
| Parrotfish | Gobies |
| Surgeonfish-tangs | Flounders |
| Triggerfish | Filefish |
| Pufferfish | |

D. Other

Miscellaneous
Eels
Mackerel scad (opelu)
Anchovy
Bonefish
Milkfish
Needlefish
Threadfin
Pomfret
Freshwater fish
Slipper lobster
Shrimp (freshwater)
Octopus
Limpets (saltwater)
Clams
Precious corals
Sea cucumbers
Algae
Rays
Bigeye scad (akule)
Leatherback
Ten pounder
Herring-sardine
Flyingfish
Halfbeaks
Mullet
Snake mackerel
Spiny lobster
Crabs
Shrimp (saltwater)
Squid
Limpets (freshwater)
Stoney corals
Sea urchins
Sea turtles

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## Table D-1
## 2005 Annual Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 3,330 | 1,769 | $3,702 | $ 2.09 |
| Sharks | 441,007 | 275,455 | $101,519 | $ 0.37 |
| Rays | 44 | 0 | $0 | $ 0.00 |
| Eels | 694 | 680 | $714 | $ 1.05 |
| Armorhead | 6 | 0 | $0 | $ 0.00 |
| Bigeye scad (akule) | 656,434 | 247,637 | $492,812 | $ 1.99 |
| Mackerel scad | 232,714 | 153,808 | $341,824 | $ 2.22 |
| Leatherjacket | 518 | 351 | $460 | $ 1.31 |
| Ten pounder | 701 | 640 | $652 | $ 1.02 |
| Bonefish | 3,963 | 3,436 | $3,554 | $ 1.03 |
| Milkfish | 2,949 | 2,762 | $3,409 | $ 1.23 |
| Needlefish | 825 | 304 | $464 | $ 1.53 |
| Threadfin | 437 | 349 | $1,963 | $ 5.63 |
| Mullet | 8,945 | 8,753 | $30,423 | $ 3.48 |
| Pomfret | 676,741 | 646,123 | $1,440,166 | $ 2.23 |
| Oilfish | 388,568 | 385,809 | $704,254 | $ 1.83 |
| Jacks (misc) | 1,587 | 878 | $1,948 | $ 2.22 |
| Amberjack | 7,674 | 231 | $173 | $ 0.75 |
| Sasa ulua | 1,187 | 780 | $1,367 | $ 1.75 |
| Pig-lipped ulua | 14,959 | 13,241 | $34,965 | $ 2.64 |
| Dobe ulua | 131 | 131 | $427 | $ 3.27 |
| Papa ulua | 5,498 | 3,176 | $9,303 | $ 2.93 |
| White ulua | 15,058 | 11,547 | $22,293 | $ 1.93 |
| Black ulua | 1,783 | 1,364 | $2,438 | $ 1.79 |
| Blue trevally | 9,676 | 3,629 | $7,279 | $ 2.01 |
| Hawaiian grouper | 50,800 | 45,479 | $208,283 | $ 4.58 |
| Blue spot grouper | 457 | 156 | $355 | $ 2.27 |
| Snappers | 2,049 | 1,731 | $5,347 | $ 3.09 |
| Yellowtail kali | 44 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 45,485 | 41,091 | $46,531 | $ 1.13 |
| Ehu (red snapper) | 33,909 | 28,063 | $130,921 | $ 4.67 |
| Gindai (flower snapper) | 7,462 | 6,128 | $21,192 | $ 3.46 |
| Golden kalekale | 9,594 | 8,129 | $30,803 | $ 3.79 |
| Lehi (silverjaw) | 6,940 | 6,415 | $21,695 | $ 3.38 |
| Onaga (red snapper) | 111,122 | 95,715 | $646,995 | $ 6.76 |
| Opakapaka (pink snapper) | 111,141 | 101,754 | $606,263 | $ 5.96 |
| Uku (gray snapper) | 155,167 | 145,233 | $483,929 | $ 3.33 |
| Snake mackerel | 4 | 0 | $0 | $ 0.00 |
| Porgy | 1,989 | 1,776 | $4,053 | $ 2.28 |
| Other reef fish | 65 | 3 | $10 | $ 3.00 |
| Reef jacks | 55 | 55 | $177 | $ 3.24 |
| Squirrelfish | 37,928 | 32,986 | $115,562 | $ 3.50 |
| Trumpetfish | 43 | 31 | $43 | $ 1.40 |

## Table D-1
## 2005 Annual Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Scorpionfish | 3,255 | 2,599 | $11,422 | $ 4.40 |
| Mountain bass | 2,238 | 1,355 | $4,611 | $ 3.40 |
| Bigeyes | 6,408 | 5,688 | $15,227 | $ 2.68 |
| Goatfish | 42,034 | 35,688 | $98,748 | $ 2.77 |
| Rudderfish | 20,417 | 19,436 | $19,899 | $ 1.02 |
| Damselfish | 2,223 | 1,326 | $3,482 | $ 2.63 |
| Hawkfish | 460 | 416 | $1,031 | $ 2.48 |
| Tilapia | 2,520 | 1,214 | $1,803 | $ 1.49 |
| Wrasse | 4,175 | 3,735 | $14,735 | $ 3.94 |
| Parrotfish | 33,111 | 30,032 | $89,446 | $ 2.98 |
| Surgeon/tangs | 94,495 | 82,250 | $119,655 | $ 1.45 |
| Flounders | 278 | 272 | $573 | $ 2.11 |
| Filefish | 1,416 | 1,134 | $1,698 | $ 1.50 |
| Pufferfish | 8 | 3 | $2 | $ 0.50 |
| Other pelagic | 2,756 | 123 | $12 | $ 0.10 |
| Moonfish (opah) | 1,099,729 | 1,086,076 | $1,897,337 | $ 1.75 |
| Rainbow runner | 5,433 | 4,265 | $6,726 | $ 1.58 |
| Mahimahi (dolphin) | 1,591,116 | 1,438,622 | $3,594,541 | $ 2.50 |
| Barracudas | 36,829 | 33,878 | $25,183 | $ 0.74 |
| Wahoo | 889,110 | 817,025 | $2,250,054 | $ 2.75 |
| Tunas (misc) | 27,335 | 8,726 | $29,986 | $ 3.44 |
| Skipjack tuna | 1,173,670 | 964,328 | $1,131,938 | $ 1.17 |
| Yellowfin tuna | 3,249,497 | 3,202,557 | $7,362,751 | $ 2.30 |
| Albacore | 1,033,073 | 1,007,931 | $1,506,812 | $ 1.50 |
| Bigeye tuna | 11,788,857 | 10,934,358 | $36,059,029 | $ 3.30 |
| Kawakawa | 7,977 | 3,342 | $4,845 | $ 1.45 |
| Other billfish | 8,986 | 315 | $318 | $ 1.01 |
| Broadbill swordfish | 3,599,151 | 3,445,598 | $7,778,160 | $ 2.26 |
| Blue marlin | 1,104,956 | 930,238 | $972,110 | $ 1.05 |
| Black marlin | 4,431 | 2,344 | $2,740 | $ 1.17 |
| Striped marlin | 1,213,824 | 1,193,272 | $1,536,412 | $ 1.29 |
| Shortnose spearfish | 493,220 | 467,748 | $420,144 | $ 0.90 |
| Sailfish | 20,831 | 7,420 | $8,480 | $ 1.14 |
| Spiny lobster | 11,864 | 10,091 | $110,927 | $10.99 |
| Slipper lobster | 57 | 12 | $101 | $ 8.36 |
| Crabs | 29,704 | 8,951 | $36,249 | $ 4.05 |
| Shrimp (saltwater) | 114,789 | 84 | $756 | $ 9.00 |
| Octopus | 24,244 | 21,198 | $63,724 | $ 3.01 |
| Squid | 1,561 | 1,444 | $2,669 | $ 1.85 |
| Limpets (saltwater) | 8,213 | 4,999 | $44,764 | $ 8.96 |
| Invertebrates | 11,668 | 7,268 | $216,340 | $29.77 |
| Algae | 10,399 | 7,209 | $39,840 | $ 5.53 |
| TOTAL | 30,825,996 | 28,072,163 | $71,013,543 | $ 2.53 |

**Table D-2**
**January 2005 Reported Commercial Landings**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 44 | 44 | $42 | $ 0.96 |
| Sharks | 29,100 | 15,345 | $6,449 | $ 0.42 |
| Eels | 25 | 25 | $25 | $ 1.00 |
| Bigeye scad (akule) | 53,460 | 14,705 | $31,988 | $ 2.18 |
| Mackerel scad | 7,508 | 4,486 | $9,288 | $ 2.07 |
| Leatherjacket | 20 | 20 | $25 | $ 1.24 |
| Ten pounder | 13 | 13 | $13 | $ 1.00 |
| Bonefish | 45 | 42 | $68 | $ 1.60 |
| Milkfish | 88 | 88 | $108 | $ 1.24 |
| Needlefish | 161 | 6 | $3 | $ 0.50 |
| Threadfin | 21 | 21 | $119 | $ 5.58 |
| Mullet | 110 | 110 | $523 | $ 4.75 |
| Pomfret | 43,224 | 41,537 | $108,618 | $ 2.62 |
| Oilfish | 33,908 | 33,908 | $62,248 | $ 1.84 |
| Jacks (misc) | 119 | 44 | $121 | $ 2.78 |
| Amberjack | 573 | 0 | $0 | $ 0.00 |
| Sasa ulua | 12 | 3 | $6 | $ 2.07 |
| Pig-lipped ulua | 878 | 842 | $2,452 | $ 2.91 |
| Papa ulua | 671 | 321 | $740 | $ 2.31 |
| White ulua | 647 | 647 | $1,290 | $ 1.99 |
| Black ulua | 12 | 0 | $0 | $ 0.00 |
| Blue trevally | 255 | 255 | $696 | $ 2.73 |
| Hawaiian grouper | 3,282 | 2,839 | $13,531 | $ 4.77 |
| Blue spot grouper | 8 | 8 | $20 | $ 2.50 |
| Snappers | 210 | 75 | $198 | $ 2.65 |
| Blue lined snapper | 3,273 | 2,478 | $2,379 | $ 0.96 |
| Ehu (red snapper) | 3,106 | 2,621 | $11,855 | $ 4.52 |
| Gindai (flower snapper) | 249 | 202 | $752 | $ 3.73 |
| Golden kalekale | 1,387 | 1,371 | $5,461 | $ 3.98 |
| Lehi (silverjaw) | 830 | 830 | $3,115 | $ 3.75 |
| Onaga (red snapper) | 11,612 | 11,169 | $76,836 | $ 6.88 |
| Opakapaka (pink snapper) | 17,968 | 17,968 | $112,103 | $ 6.24 |
| Uku (gray snapper) | 5,539 | 5,434 | $23,367 | $ 4.30 |
| Porgy | 69 | 69 | $131 | $ 1.90 |
| Squirrelfish | 1,230 | 1,230 | $4,067 | $ 3.31 |
| Trumpetfish | 8 | 5 | $7 | $ 1.50 |
| Scorpionfish | 249 | 249 | $1,019 | $ 4.10 |
| Mountain bass | 67 | 52 | $174 | $ 3.37 |
| Bigeyes | 624 | 624 | $1,470 | $ 2.35 |
| Goatfish | 5,474 | 3,687 | $9,504 | $ 2.58 |
| Rudderfish | 302 | 298 | $369 | $ 1.24 |
| Damselfish | 42 | 42 | $113 | $ 2.71 |

## Table D-2
## January 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Hawkfish | 12 | 12 | $31 | $ 2.65 |
| Wrasse | 301 | 301 | $1,065 | $ 3.54 |
| Parrotfish | 1,524 | 1,494 | $4,064 | $ 2.72 |
| Surgeon/tangs | 5,517 | 4,611 | $7,138 | $ 1.55 |
| Filefish | 230 | 36 | $36 | $ 1.00 |
| Other pelagic | 247 | 114 | $11 | $ 0.10 |
| Moonfish (opah) | 42,658 | 42,580 | $105,089 | $ 2.47 |
| Rainbow runner | 343 | 169 | $267 | $ 1.58 |
| Mahimahi (dolphin) | 109,176 | 107,575 | $242,511 | $ 2.25 |
| Barracudas | 1,900 | 680 | $668 | $ 0.98 |
| Wahoo | 62,220 | 61,218 | $176,363 | $ 2.88 |
| Tunas (misc) | 732 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 74,509 | 24,368 | $19,069 | $ 0.78 |
| Yellowfin tuna | 448,157 | 448,157 | $916,042 | $ 2.04 |
| Albacore | 58,079 | 56,813 | $96,419 | $ 1.70 |
| Bigeye tuna | 1,125,864 | 962,146 | $2,333,333 | $ 2.43 |
| Kawakawa | 419 | 208 | $433 | $ 2.09 |
| Other billfish | 1,492 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 171,536 | 166,734 | $539,387 | $ 3.24 |
| Blue marlin | 56,443 | 24,929 | $26,074 | $ 1.05 |
| Black marlin | 180 | 180 | $268 | $ 1.49 |
| Striped marlin | 122,825 | 122,825 | $143,013 | $ 1.16 |
| Shortnose spearfish | 90,016 | 90,016 | $47,291 | $ 0.53 |
| Sailfish | 2,178 | 631 | $724 | $ 1.15 |
| Spiny lobster | 1,324 | 1,051 | $11,814 | $11.24 |
| Crabs | 2,599 | 932 | $3,478 | $ 3.73 |
| Shrimp (saltwater) | 2,000 | 0 | $0 | $ 0.00 |
| Octopus | 805 | 601 | $1,746 | $ 2.91 |
| Squid | 19 | 19 | $46 | $ 2.50 |
| Limpets (saltwater) | 1,221 | 465 | $2,459 | $ 5.29 |
| Invertebrates | 200 | 0 | $0 | $ 0.00 |
| Algae | 788 | 643 | $3,193 | $ 4.96 |
| TOTAL | 2,611,932 | 2,283,213 | $5,173,326 | $ 2.27 |

**Table D-3**
**February 2005 Reported Commercial Landings**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 64 | 64 | $155 | $ 2.43 |
| Sharks | 30,814 | 24,607 | $12,672 | $ 0.52 |
| Eels | 183 | 183 | $183 | $ 1.00 |
| Bigeye scad (akule) | 53,273 | 19,877 | $42,349 | $ 2.13 |
| Mackerel scad | 6,191 | 6,148 | $12,757 | $ 2.07 |
| Leatherjacket | 16 | 16 | $21 | $ 1.37 |
| Ten pounder | 91 | 91 | $91 | $ 1.00 |
| Bonefish | 387 | 352 | $375 | $ 1.07 |
| Milkfish | 478 | 478 | $595 | $ 1.25 |
| Needlefish | 56 | 39 | $55 | $ 1.43 |
| Threadfin | 34 | 34 | $183 | $ 5.46 |
| Mullet | 113 | 113 | $529 | $ 4.70 |
| Pomfret | 65,566 | 58,502 | $133,030 | $ 2.27 |
| Oilfish | 47,344 | 45,535 | $74,858 | $ 1.64 |
| Jacks (misc) | 22 | 6 | $15 | $ 2.75 |
| Amberjack | 139 | 40 | $20 | $ 0.50 |
| Sasa ulua | 20 | 20 | $50 | $ 2.50 |
| Pig-lipped ulua | 2,310 | 2,027 | $4,945 | $ 2.44 |
| Dobe ulua | 64 | 64 | $225 | $ 3.50 |
| Papa ulua | 354 | 154 | $454 | $ 2.95 |
| White ulua | 2,225 | 452 | $609 | $ 1.35 |
| Black ulua | 183 | 113 | $183 | $ 1.62 |
| Blue trevally | 140 | 33 | $85 | $ 2.56 |
| Hawaiian grouper | 3,713 | 3,645 | $15,691 | $ 4.30 |
| Blue spot grouper | 30 | 3 | $6 | $ 2.02 |
| Snappers | 37 | 18 | $47 | $ 2.66 |
| Blue lined snapper | 2,791 | 1,549 | $1,247 | $ 0.81 |
| Ehu (red snapper) | 1,907 | 1,907 | $8,744 | $ 4.59 |
| Gindai (flower snapper) | 463 | 463 | $1,604 | $ 3.46 |
| Golden kalekale | 658 | 658 | $2,353 | $ 3.58 |
| Lehi (silverjaw) | 419 | 419 | $1,372 | $ 3.27 |
| Onaga (red snapper) | 9,068 | 9,068 | $56,422 | $ 6.22 |
| Opakapaka (pink snapper) | 9,573 | 9,573 | $52,235 | $ 5.46 |
| Uku (gray snapper) | 9,074 | 8,656 | $27,438 | $ 3.17 |
| Porgy | 145 | 61 | $77 | $ 1.28 |
| Reef jacks | 10 | 10 | $29 | $ 3.00 |
| Squirrelfish | 1,213 | 980 | $3,203 | $ 3.27 |
| Scorpionfish | 170 | 170 | $814 | $ 4.79 |
| Mountain bass | 156 | 41 | $100 | $ 2.43 |
| Bigeyes | 481 | 481 | $1,385 | $ 2.88 |
| Goatfish | 2,261 | 1,883 | $4,971 | $ 2.64 |
| Rudderfish | 1,460 | 1,460 | $1,504 | $ 1.03 |
| Damselfish | 21 | 21 | $58 | $ 2.80 |
| Hawkfish | 14 | 2 | $3 | $ 2.25 |

## Table D-3
## February 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Tilapia | 80 | 80 | $119 | $ 1.50 |
| Wrasse | 264 | 264 | $1,373 | $ 5.19 |
| Parrotfish | 1,770 | 1,242 | $3,513 | $ 2.83 |
| Surgeon/tangs | 4,870 | 3,805 | $5,961 | $ 1.57 |
| Filefish | 74 | 74 | $74 | $ 1.00 |
| Other pelagic | 1,836 | 9 | $1 | $ 0.10 |
| Moonfish (opah) | 56,731 | 54,447 | $129,076 | $ 2.37 |
| Rainbow runner | 105 | 99 | $125 | $ 1.26 |
| Mahimahi (dolphin) | 165,408 | 143,134 | $274,043 | $ 1.91 |
| Barracudas | 2,366 | 1,724 | $1,358 | $ 0.79 |
| Wahoo | 61,211 | 55,375 | $151,785 | $ 2.74 |
| Tunas (misc) | 385 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 73,307 | 36,379 | $42,032 | $ 1.16 |
| Yellowfin tuna | 344,639 | 324,225 | $709,568 | $ 2.19 |
| Albacore | 95,135 | 80,739 | $123,911 | $ 1.53 |
| Bigeye tuna | 1,185,657 | 984,447 | $2,866,454 | $ 2.91 |
| Kawakawa | 450 | 150 | $227 | $ 1.51 |
| Other billfish | 331 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 217,834 | 135,566 | $452,418 | $ 3.34 |
| Blue marlin | 61,072 | 49,367 | $50,976 | $ 1.03 |
| Black marlin | 310 | 258 | $416 | $ 1.62 |
| Striped marlin | 105,638 | 101,650 | $130,113 | $ 1.28 |
| Shortnose spearfish | 71,842 | 65,757 | $47,664 | $ 0.72 |
| Sailfish | 2,107 | 453 | $479 | $ 1.06 |
| Spiny lobster | 1,269 | 882 | $8,488 | $ 9.63 |
| Slipper lobster | 3 | 3 | $23 | $ 9.00 |
| Crabs | 1,586 | 366 | $1,307 | $ 3.57 |
| Shrimp (saltwater) | 203 | 0 | $0 | $ 0.00 |
| Octopus | 1,211 | 949 | $2,834 | $ 2.99 |
| Limpets (saltwater) | 1,281 | 270 | $1,220 | $ 4.52 |
| Invertebrates | 800 | 0 | $0 | $ 0.00 |
| Algae | 1,248 | 735 | $4,336 | $ 5.90 |
| TOTAL | 2,714,750 | 2,242,457 | $5,473,634 | $ 2.44 |

## Table D-4
## March 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 16 | 16 | $32 | $ 2.03 |
| Sharks | 37,861 | 35,249 | $11,020 | $ 0.31 |
| Rays | 9 | 0 | $0 | $ 0.00 |
| Eels | 107 | 107 | $107 | $ 1.00 |
| Armorhead | 6 | 0 | $0 | $ 0.00 |
| Bigeye scad (akule) | 72,365 | 31,096 | $51,108 | $ 1.64 |
| Mackerel scad | 12,181 | 8,078 | $17,248 | $ 2.14 |
| Leatherjacket | 28 | 28 | $38 | $ 1.39 |
| Ten pounder | 117 | 117 | $117 | $ 1.00 |
| Bonefish | 142 | 142 | $182 | $ 1.28 |
| Milkfish | 150 | 150 | $187 | $ 1.25 |
| Needlefish | 37 | 29 | $50 | $ 1.76 |
| Threadfin | 17 | 17 | $101 | $ 6.12 |
| Mullet | 90 | 90 | $428 | $ 4.75 |
| Pomfret | 58,111 | 58,111 | $132,868 | $ 2.29 |
| Oilfish | 47,286 | 47,286 | $63,927 | $ 1.35 |
| Jacks (misc) | 226 | 226 | $324 | $ 1.43 |
| Amberjack | 612 | 4 | $2 | $ 0.50 |
| Sasa ulua | 3 | 0 | $0 | $ 0.00 |
| Pig-lipped ulua | 3,258 | 3,102 | $6,984 | $ 2.25 |
| Dobe ulua | 15 | 15 | $51 | $ 3.50 |
| Papa ulua | 520 | 292 | $663 | $ 2.27 |
| White ulua | 864 | 728 | $1,322 | $ 1.82 |
| Black ulua | 93 | 48 | $61 | $ 1.29 |
| Blue trevally | 188 | 188 | $463 | $ 2.47 |
| Hawaiian grouper | 3,706 | 3,606 | $20,426 | $ 5.67 |
| Blue spot grouper | 22 | 4 | $8 | $ 2.00 |
| Snappers | 156 | 156 | $550 | $ 3.54 |
| Yellowtail kali | 4 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 2,764 | 2,764 | $2,986 | $ 1.08 |
| Ehu (red snapper) | 3,115 | 2,847 | $14,207 | $ 4.99 |
| Gindai (flower snapper) | 545 | 481 | $1,699 | $ 3.53 |
| Golden kalekale | 930 | 896 | $3,592 | $ 4.01 |
| Lehi (silverjaw) | 790 | 790 | $2,673 | $ 3.39 |
| Onaga (red snapper) | 16,042 | 14,993 | $97,792 | $ 6.52 |
| Opakapaka (pink snapper) | 16,718 | 16,493 | $101,725 | $ 6.17 |
| Uku (gray snapper) | 7,765 | 7,345 | $28,970 | $ 3.94 |
| Porgy | 114 | 114 | $199 | $ 1.76 |
| Squirrelfish | 1,732 | 1,732 | $5,802 | $ 3.35 |
| Trumpetfish | 7 | 7 | $10 | $ 1.50 |
| Scorpionfish | 315 | 302 | $1,658 | $ 5.49 |
| Mountain bass | 221 | 104 | $387 | $ 3.73 |
| Bigeyes | 606 | 606 | $1,451 | $ 2.40 |
| Goatfish | 4,163 | 4,163 | $10,111 | $ 2.43 |

## Table D-4
## March 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Rudderfish | 441 | 200 | $305 | $ 1.53 |
| Damselfish | 62 | 36 | $94 | $ 2.64 |
| Hawkfish | 34 | 5 | $10 | $ 1.98 |
| Wrasse | 277 | 242 | $1,267 | $ 5.24 |
| Parrotfish | 1,282 | 1,049 | $2,964 | $ 2.83 |
| Surgeon/tangs | 6,113 | 3,405 | $5,261 | $ 1.55 |
| Flounders | 184 | 184 | $461 | $ 2.50 |
| Filefish | 173 | 173 | $236 | $ 1.37 |
| Pufferfish | 3 | 3 | $2 | $ 0.50 |
| Other pelagic | 192 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 50,376 | 50,376 | $121,248 | $ 2.41 |
| Rainbow runner | 188 | 177 | $253 | $ 1.43 |
| Mahimahi (dolphin) | 167,842 | 164,335 | $383,174 | $ 2.33 |
| Barracudas | 3,372 | 3,188 | $2,538 | $ 0.80 |
| Wahoo | 99,165 | 99,165 | $256,523 | $ 2.59 |
| Tunas (misc) | 339 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 113,428 | 92,587 | $76,858 | $ 0.83 |
| Yellowfin tuna | 284,691 | 284,691 | $770,197 | $ 2.71 |
| Albacore | 67,947 | 59,270 | $135,630 | $ 2.29 |
| Bigeye tuna | 755,021 | 755,021 | $2,758,384 | $ 3.65 |
| Kawakawa | 345 | 129 | $211 | $ 1.63 |
| Broadbill swordfish | 707,284 | 707,284 | $1,646,811 | $ 2.33 |
| Blue marlin | 48,290 | 44,466 | $59,605 | $ 1.34 |
| Striped marlin | 130,019 | 130,019 | $196,886 | $ 1.51 |
| Shortnose spearfish | 70,751 | 70,751 | $66,620 | $ 0.94 |
| Sailfish | 782 | 220 | $196 | $ 0.89 |
| Spiny lobster | 1,982 | 1,852 | $20,954 | $11.32 |
| Slipper lobster | 4 | 4 | $31 | $ 8.50 |
| Crabs | 1,908 | 982 | $3,886 | $ 3.96 |
| Shrimp (saltwater) | 2,920 | 30 | $270 | $ 9.00 |
| Octopus | 1,334 | 1,334 | $4,278 | $ 3.21 |
| Limpets (saltwater) | 902 | 391 | $4,220 | $10.79 |
| Invertebrates | 740 | 0 | $0 | $ 0.00 |
| Algae | 1,062 | 847 | $4,835 | $ 5.71 |
| TOTAL | 2,813,461 | 2,714,927 | $7,105,738 | $ 2.62 |

## Table D-5
## April 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 1,279 | 270 | $454 | $ 1.68 |
| Sharks | 22,818 | 21,060 | $7,866 | $ 0.37 |
| Rays | 9 | 0 | $0 | $ 0.00 |
| Eels | 6 | 6 | $9 | $ 1.49 |
| Bigeye scad (akule) | 89,593 | 38,643 | $75,601 | $ 1.96 |
| Mackerel scad | 11,497 | 7,705 | $15,476 | $ 2.01 |
| Leatherjacket | 18 | 11 | $12 | $ 1.13 |
| Ten pounder | 33 | 33 | $33 | $ 1.02 |
| Bonefish | 240 | 240 | $240 | $ 1.00 |
| Milkfish | 125 | 125 | $156 | $ 1.25 |
| Needlefish | 43 | 10 | $10 | $ 1.02 |
| Threadfin | 6 | 6 | $36 | $ 6.23 |
| Mullet | 2,114 | 2,114 | $6,882 | $ 3.26 |
| Pomfret | 77,199 | 76,474 | $140,242 | $ 1.83 |
| Oilfish | 41,259 | 41,259 | $59,930 | $ 1.45 |
| Jacks (misc) | 308 | 5 | $13 | $ 2.50 |
| Amberjack | 650 | 21 | $11 | $ 0.52 |
| Sasa ulua | 33 | 4 | $11 | $ 3.00 |
| Pig-lipped ulua | 745 | 723 | $2,296 | $ 3.18 |
| Dobe ulua | 11 | 11 | $38 | $ 3.34 |
| Papa ulua | 219 | 214 | $678 | $ 3.18 |
| White ulua | 631 | 407 | $795 | $ 1.95 |
| Black ulua | 69 | 19 | $33 | $ 1.76 |
| Blue trevally | 483 | 128 | $293 | $ 2.30 |
| Hawaiian grouper | 3,871 | 3,614 | $18,974 | $ 5.25 |
| Blue spot grouper | 66 | 16 | $31 | $ 2.00 |
| Snappers | 39 | 37 | $128 | $ 3.49 |
| Yellowtail kali | 5 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 1,809 | 1,809 | $2,087 | $ 1.15 |
| Ehu (red snapper) | 1,602 | 1,586 | $8,141 | $ 5.13 |
| Gindai (flower snapper) | 610 | 603 | $1,979 | $ 3.28 |
| Golden kalekale | 558 | 522 | $2,390 | $ 4.58 |
| Lehi (silverjaw) | 614 | 485 | $1,749 | $ 3.61 |
| Onaga (red snapper) | 8,665 | 8,196 | $48,085 | $ 5.87 |
| Opakapaka (pink snapper) | 8,436 | 8,436 | $48,773 | $ 5.78 |
| Uku (gray snapper) | 9,369 | 7,485 | $25,280 | $ 3.38 |
| Porgy | 90 | 90 | $252 | $ 2.80 |
| Other reef fish | 4 | 0 | $0 | $ 0.00 |
| Reef jacks | 21 | 21 | $74 | $ 3.50 |
| Squirrelfish | 4,033 | 3,557 | $12,133 | $ 3.41 |
| Trumpetfish | 3 | 3 | $3 | $ 1.25 |
| Scorpionfish | 234 | 229 | $709 | $ 3.09 |
| Mountain bass | 335 | 310 | $921 | $ 2.98 |
| Bigeyes | 646 | 646 | $1,758 | $ 2.72 |

**Table D-5**
**April 2005 Reported Commercial Landings (Cont.)**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Goatfish | 3,129 | 2,340 | $5,408 | $ 2.31 |
| Rudderfish | 481 | 315 | $390 | $ 1.24 |
| Damselfish | 167 | 138 | $363 | $ 2.63 |
| Hawkfish | 23 | 23 | $47 | $ 2.00 |
| Tilapia | 232 | 232 | $348 | $ 1.50 |
| Wrasse | 221 | 219 | $1,086 | $ 4.96 |
| Parrotfish | 2,483 | 2,483 | $7,597 | $ 3.06 |
| Surgeon/tangs | 8,024 | 8,024 | $12,633 | $ 1.57 |
| Flounders | 14 | 14 | $14 | $ 1.05 |
| Filefish | 249 | 249 | $293 | $ 1.18 |
| Other pelagic | 144 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 40,274 | 39,363 | $100,345 | $ 2.55 |
| Rainbow runner | 233 | 155 | $221 | $ 1.43 |
| Mahimahi (dolphin) | 159,595 | 155,501 | $431,457 | $ 2.77 |
| Barracudas | 6,726 | 6,726 | $7,796 | $ 1.16 |
| Wahoo | 123,165 | 118,879 | $239,073 | $ 2.01 |
| Tunas (misc) | 1,158 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 64,352 | 52,610 | $61,066 | $ 1.16 |
| Yellowfin tuna | 172,195 | 169,311 | $495,100 | $ 2.92 |
| Albacore | 97,347 | 97,135 | $190,398 | $ 1.96 |
| Bigeye tuna | 543,826 | 490,631 | $2,070,196 | $ 4.22 |
| Kawakawa | 621 | 621 | $790 | $ 1.27 |
| Other billfish | 458 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 830,854 | 770,403 | $1,711,003 | $ 2.22 |
| Blue marlin | 92,199 | 92,199 | $91,688 | $ 0.99 |
| Black marlin | 393 | 0 | $0 | $ 0.00 |
| Striped marlin | 120,237 | 113,100 | $150,564 | $ 1.33 |
| Shortnose spearfish | 36,869 | 36,653 | $40,696 | $ 1.11 |
| Sailfish | 825 | 111 | $124 | $ 1.12 |
| Spiny lobster | 1,135 | 1,055 | $10,369 | $ 9.83 |
| Crabs | 2,876 | 1,405 | $5,809 | $ 4.14 |
| Shrimp (saltwater) | 2,947 | 0 | $0 | $ 0.00 |
| Octopus | 1,383 | 1,383 | $4,411 | $ 3.19 |
| Limpets (saltwater) | 1,324 | 672 | $7,296 | $10.87 |
| Invertebrates | 730 | 0 | $0 | $ 0.00 |
| Algae | 1,304 | 231 | $1,505 | $ 6.52 |
| TOTAL | 2,608,586 | 2,389,307 | $6,132,669 | $ 2.57 |

## Table D-6
## May 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 723 | 237 | $970 | $ 4.09 |
| Sharks | 46,833 | 20,958 | $6,693 | $ 0.32 |
| Eels | 59 | 59 | $62 | $ 1.06 |
| Bigeye scad (akule) | 69,018 | 35,394 | $69,980 | $ 1.98 |
| Mackerel scad | 10,014 | 8,385 | $18,987 | $ 2.26 |
| Leatherjacket | 37 | 22 | $34 | $ 1.52 |
| Ten pounder | 55 | 55 | $55 | $ 1.00 |
| Bonefish | 427 | 393 | $398 | $ 1.01 |
| Milkfish | 204 | 135 | $161 | $ 1.19 |
| Needlefish | 97 | 77 | $98 | $ 1.28 |
| Threadfin | 29 | 26 | $158 | $ 6.13 |
| Mullet | 1,173 | 1,173 | $3,926 | $ 3.35 |
| Pomfret | 71,289 | 71,289 | $115,168 | $ 1.62 |
| Oilfish | 42,727 | 42,727 | $46,927 | $ 1.10 |
| Jacks (misc) | 258 | 258 | $706 | $ 2.74 |
| Amberjack | 790 | 0 | $0 | $ 0.00 |
| Sasa ulua | 35 | 22 | $53 | $ 2.40 |
| Pig-lipped ulua | 556 | 556 | $1,612 | $ 2.90 |
| Dobe ulua | 13 | 13 | $47 | $ 3.52 |
| Papa ulua | 167 | 67 | $169 | $ 2.52 |
| White ulua | 1,480 | 1,480 | $2,694 | $ 1.82 |
| Black ulua | 100 | 48 | $108 | $ 2.26 |
| Blue trevally | 1,130 | 287 | $593 | $ 2.07 |
| Hawaiian grouper | 5,418 | 5,379 | $23,734 | $ 4.41 |
| Blue spot grouper | 58 | 14 | $29 | $ 2.00 |
| Snappers | 230 | 230 | $746 | $ 3.24 |
| Blue lined snapper | 3,978 | 3,679 | $3,925 | $ 1.07 |
| Ehu (red snapper) | 2,714 | 2,568 | $12,804 | $ 4.99 |
| Gindai (flower snapper) | 505 | 487 | $1,750 | $ 3.59 |
| Golden kalekale | 590 | 531 | $2,184 | $ 4.11 |
| Lehi (silverjaw) | 484 | 484 | $1,730 | $ 3.57 |
| Onaga (red snapper) | 4,276 | 4,173 | $32,622 | $ 7.82 |
| Opakapaka (pink snapper) | 6,784 | 6,784 | $45,350 | $ 6.69 |
| Uku (gray snapper) | 23,788 | 23,788 | $77,401 | $ 3.25 |
| Porgy | 238 | 238 | $548 | $ 2.30 |
| Other reef fish | 1 | 0 | $0 | $ 0.00 |
| Reef jacks | 18 | 18 | $54 | $ 3.00 |
| Squirrelfish | 4,668 | 4,480 | $15,611 | $ 3.48 |
| Scorpionfish | 116 | 104 | $500 | $ 4.80 |
| Mountain bass | 229 | 66 | $194 | $ 2.92 |
| Bigeyes | 855 | 636 | $1,508 | $ 2.37 |
| Goatfish | 5,262 | 5,262 | $13,495 | $ 2.56 |
| Rudderfish | 1,693 | 1,693 | $1,836 | $ 1.08 |
| Damselfish | 105 | 105 | $231 | $ 2.20 |

**Table D-6**
**May 2005 Reported Commercial Landings (Cont.)**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Hawkfish | 35 | 35 | $95 | $ 2.74 |
| Tilapia | 154 | 154 | $231 | $ 1.50 |
| Wrasse | 337 | 270 | $1,045 | $ 3.88 |
| Parrotfish | 4,028 | 3,863 | $11,641 | $ 3.01 |
| Surgeon/tangs | 6,080 | 5,265 | $7,618 | $ 1.45 |
| Filefish | 216 | 216 | $221 | $ 1.03 |
| Other pelagic | 48 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 66,269 | 66,269 | $129,983 | $ 1.96 |
| Rainbow runner | 441 | 441 | $445 | $ 1.01 |
| Mahimahi (dolphin) | 112,747 | 98,141 | $291,817 | $ 2.97 |
| Barracudas | 9,311 | 9,311 | $3,553 | $ 0.38 |
| Wahoo | 111,723 | 97,779 | $208,653 | $ 2.13 |
| Tunas (misc) | 2,703 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 103,709 | 78,162 | $75,210 | $ 0.96 |
| Yellowfin tuna | 236,730 | 236,730 | $602,439 | $ 2.54 |
| Albacore | 166,341 | 165,751 | $223,902 | $ 1.35 |
| Bigeye tuna | 548,967 | 493,917 | $1,872,903 | $ 3.79 |
| Kawakawa | 533 | 391 | $531 | $ 1.36 |
| Other billfish | 422 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 770,692 | 770,692 | $1,273,603 | $ 1.65 |
| Blue marlin | 158,819 | 134,010 | $65,981 | $ 0.49 |
| Black marlin | 434 | 222 | $147 | $ 0.66 |
| Striped marlin | 217,169 | 210,280 | $128,231 | $ 0.61 |
| Shortnose spearfish | 43,756 | 41,706 | $27,826 | $ 0.67 |
| Sailfish | 1,356 | 253 | $85 | $ 0.34 |
| Spiny lobster | 10 | 10 | $65 | $ 6.79 |
| Crabs | 153 | 153 | $683 | $ 4.46 |
| Shrimp (saltwater) | 19,406 | 30 | $270 | $ 9.00 |
| Octopus | 3,457 | 3,457 | $6,980 | $ 2.02 |
| Squid | 31 | 31 | $155 | $ 5.00 |
| Limpets (saltwater) | 792 | 681 | $5,075 | $ 7.45 |
| Invertebrates | 1,130 | 0 | $0 | $ 0.00 |
| Algae | 943 | 704 | $4,042 | $ 5.74 |
| TOTAL | 2,898,161 | 2,663,302 | $5,449,281 | $ 2.05 |

**Table D-7**
**June 2005 Reported Commercial Landings**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 156 | 156 | $676 | $ 4.35 |
| Sharks | 26,940 | 26,940 | $10,038 | $ 0.37 |
| Eels | 30 | 30 | $33 | $ 1.09 |
| Bigeye scad (akule) | 98,988 | 29,035 | $57,077 | $ 1.97 |
| Mackerel scad | 5,823 | 4,807 | $10,945 | $ 2.28 |
| Leatherjacket | 31 | 9 | $11 | $ 1.27 |
| Ten pounder | 69 | 41 | $47 | $ 1.13 |
| Bonefish | 566 | 434 | $448 | $ 1.03 |
| Milkfish | 201 | 135 | $170 | $ 1.26 |
| Needlefish | 62 | 8 | $17 | $ 2.20 |
| Mullet | 401 | 276 | $1,108 | $ 4.01 |
| Pomfret | 49,471 | 49,471 | $128,774 | $ 2.60 |
| Oilfish | 37,013 | 37,013 | $75,667 | $ 2.04 |
| Jacks (misc) | 59 | 47 | $169 | $ 3.59 |
| Amberjack | 31 | 4 | $2 | $ 0.50 |
| Sasa ulua | 42 | 42 | $68 | $ 1.63 |
| Pig-lipped ulua | 597 | 162 | $467 | $ 2.88 |
| Papa ulua | 298 | 298 | $949 | $ 3.19 |
| White ulua | 1,416 | 773 | $1,608 | $ 2.08 |
| Black ulua | 602 | 602 | $1,187 | $ 1.97 |
| Blue trevally | 909 | 167 | $357 | $ 2.14 |
| Hawaiian grouper | 3,724 | 713 | $4,842 | $ 6.79 |
| Blue spot grouper | 46 | 6 | $12 | $ 2.01 |
| Snappers | 153 | 96 | $309 | $ 3.23 |
| Yellowtail kali | 4 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 2,957 | 2,957 | $3,516 | $ 1.19 |
| Ehu (red snapper) | 1,778 | 1,070 | $6,000 | $ 5.61 |
| Gindai (flower snapper) | 787 | 84 | $401 | $ 4.80 |
| Golden kalekale | 502 | 347 | $1,218 | $ 3.51 |
| Lehi (silverjaw) | 85 | 80 | $242 | $ 3.04 |
| Onaga (red snapper) | 3,252 | 3,095 | $22,023 | $ 7.12 |
| Opakapaka (pink snapper) | 3,252 | 2,465 | $14,983 | $ 6.08 |
| Uku (gray snapper) | 20,731 | 18,548 | $61,338 | $ 3.31 |
| Porgy | 408 | 408 | $1,037 | $ 2.54 |
| Other reef fish | 2 | 0 | $0 | $ 0.00 |
| Reef jacks | 1 | 1 | $4 | $ 3.50 |
| Squirrelfish | 3,053 | 1,436 | $4,617 | $ 3.21 |
| Scorpionfish | 180 | 156 | $615 | $ 3.96 |
| Mountain bass | 99 | 68 | $193 | $ 2.84 |
| Bigeyes | 358 | 273 | $574 | $ 2.10 |
| Goatfish | 1,560 | 1,560 | $5,262 | $ 3.37 |
| Rudderfish | 430 | 142 | $219 | $ 1.54 |
| Damselfish | 335 | 233 | $680 | $ 2.92 |
| Hawkfish | 83 | 83 | $202 | $ 2.44 |

**Table D-7**
**June 2005 Reported Commercial Landings (Cont.)**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Tilapia | 155 | 0 | $0 | $ 0.00 |
| Wrasse | 193 | 156 | $412 | $ 2.65 |
| Parrotfish | 4,974 | 4,683 | $14,527 | $ 3.10 |
| Surgeon/tangs | 7,706 | 7,351 | $10,946 | $ 1.49 |
| Filefish | 192 | 192 | $221 | $ 1.15 |
| Moonfish (opah) | 81,698 | 81,698 | $168,145 | $ 2.06 |
| Rainbow runner | 330 | 282 | $469 | $ 1.67 |
| Mahimahi (dolphin) | 51,958 | 46,008 | $186,534 | $ 4.05 |
| Barracudas | 1,629 | 1,550 | $1,567 | $ 1.01 |
| Wahoo | 98,012 | 87,700 | $251,900 | $ 2.87 |
| Tunas (misc) | 3,159 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 163,472 | 154,356 | $109,063 | $ 0.71 |
| Yellowfin tuna | 278,009 | 278,009 | $559,175 | $ 2.01 |
| Albacore | 65,096 | 65,096 | $112,953 | $ 1.74 |
| Bigeye tuna | 862,421 | 817,416 | $2,570,503 | $ 3.14 |
| Kawakawa | 1,310 | 305 | $345 | $ 1.13 |
| Other billfish | 373 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 457,301 | 457,301 | $1,115,104 | $ 2.44 |
| Blue marlin | 164,876 | 134,232 | $94,435 | $ 0.70 |
| Black marlin | 902 | 751 | $618 | $ 0.82 |
| Striped marlin | 165,095 | 165,095 | $152,600 | $ 0.92 |
| Shortnose spearfish | 22,247 | 22,247 | $21,060 | $ 0.95 |
| Sailfish | 354 | 88 | $23 | $ 0.27 |
| Crabs | 293 | 293 | $1,573 | $ 5.37 |
| Shrimp (saltwater) | 26,025 | 0 | $0 | $ 0.00 |
| Octopus | 1,918 | 1,918 | $6,192 | $ 3.23 |
| Squid | 137 | 137 | $167 | $ 1.22 |
| Limpets (saltwater) | 362 | 362 | $2,059 | $ 5.69 |
| Invertebrates | 7,198 | 7,198 | $215,940 | $30.00 |
| Algae | 524 | 237 | $1,799 | $ 7.60 |
| TOTAL | 2,735,400 | 2,518,927 | $6,016,433 | $ 2.39 |

## Table D-8
## July 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 150 | 150 | $387 | $ 2.59 |
| Sharks | 21,576 | 21,234 | $7,057 | $ 0.33 |
| Eels | 45 | 45 | $45 | $ 1.00 |
| Bigeye scad (akule) | 61,970 | 24,256 | $49,535 | $ 2.04 |
| Mackerel scad | 9,089 | 7,383 | $17,663 | $ 2.39 |
| Leatherjacket | 135 | 135 | $176 | $ 1.31 |
| Ten pounder | 57 | 57 | $57 | $ 1.00 |
| Bonefish | 257 | 257 | $215 | $ 0.84 |
| Milkfish | 368 | 351 | $433 | $ 1.24 |
| Needlefish | 20 | 20 | $31 | $ 1.54 |
| Mullet | 681 | 630 | $2,320 | $ 3.68 |
| Pomfret | 35,655 | 34,013 | $100,780 | $ 2.96 |
| Oilfish | 27,659 | 27,659 | $72,341 | $ 2.62 |
| Jacks (misc) | 49 | 26 | $75 | $ 2.94 |
| Amberjack | 461 | 24 | $36 | $ 1.50 |
| Sasa ulua | 153 | 153 | $146 | $ 0.95 |
| Pig-lipped ulua | 1,366 | 1,366 | $4,562 | $ 3.34 |
| Dobe ulua | 7 | 7 | $26 | $ 3.70 |
| Papa ulua | 264 | 139 | $379 | $ 2.73 |
| White ulua | 2,368 | 2,368 | $4,667 | $ 1.97 |
| Black ulua | 16 | 16 | $35 | $ 2.20 |
| Blue trevally | 3,315 | 1,358 | $2,637 | $ 1.94 |
| Hawaiian grouper | 3,486 | 3,486 | $15,815 | $ 4.54 |
| Blue spot grouper | 36 | 16 | $33 | $ 2.00 |
| Snappers | 118 | 118 | $413 | $ 3.51 |
| Blue lined snapper | 4,253 | 3,320 | $3,478 | $ 1.05 |
| Ehu (red snapper) | 1,347 | 1,347 | $6,178 | $ 4.58 |
| Gindai (flower snapper) | 728 | 728 | $2,494 | $ 3.43 |
| Golden kalekale | 321 | 321 | $1,255 | $ 3.90 |
| Lehi (silverjaw) | 218 | 171 | $562 | $ 3.28 |
| Onaga (red snapper) | 1,544 | 1,232 | $11,939 | $ 9.70 |
| Opakapaka (pink snapper) | 2,423 | 2,423 | $15,503 | $ 6.40 |
| Uku (gray snapper) | 13,518 | 13,518 | $47,820 | $ 3.54 |
| Snake mackerel | 4 | 0 | $0 | $ 0.00 |
| Porgy | 173 | 173 | $371 | $ 2.15 |
| Other reef fish | 14 | 0 | $0 | $ 0.00 |
| Squirrelfish | 4,653 | 2,285 | $7,935 | $ 3.47 |
| Scorpionfish | 381 | 191 | $716 | $ 3.75 |
| Mountain bass | 182 | 135 | $427 | $ 3.16 |
| Bigeyes | 610 | 464 | $1,253 | $ 2.70 |
| Goatfish | 2,235 | 2,041 | $5,960 | $ 2.92 |
| Rudderfish | 2,196 | 2,196 | $2,403 | $ 1.09 |
| Damselfish | 420 | 178 | $508 | $ 2.85 |
| Hawkfish | 29 | 29 | $69 | $ 2.42 |

**Table D-8**
**July 2005 Reported Commercial Landings (Cont.)**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Tilapia | 240 | 0 | $0 | $ 0.00 |
| Wrasse | 239 | 239 | $391 | $ 1.63 |
| Parrotfish | 2,831 | 2,750 | $8,174 | $ 2.97 |
| Surgeon/tangs | 11,596 | 11,596 | $15,441 | $ 1.33 |
| Flounders | 10 | 10 | $17 | $ 1.70 |
| Filefish | 86 | 86 | $292 | $ 3.41 |
| Other pelagic | 48 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 123,785 | 117,130 | $221,191 | $ 1.89 |
| Rainbow runner | 866 | 762 | $1,664 | $ 2.18 |
| Mahimahi (dolphin) | 76,552 | 71,821 | $286,137 | $ 3.98 |
| Barracudas | 1,922 | 1,915 | $2,034 | $ 1.06 |
| Wahoo | 87,080 | 75,893 | $241,710 | $ 3.18 |
| Tunas (misc) | 2,937 | 0 | $0 | $ 0.00 |
| Skipjack tuna | 110,982 | 101,106 | $109,071 | $ 1.08 |
| Yellowfin tuna | 277,026 | 277,026 | $519,620 | $ 1.88 |
| Albacore | 132,862 | 132,862 | $145,746 | $ 1.10 |
| Bigeye tuna | 1,218,173 | 1,145,842 | $3,315,337 | $ 2.89 |
| Kawakawa | 586 | 384 | $495 | $ 1.29 |
| Other billfish | 880 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 150,478 | 147,659 | $356,077 | $ 2.41 |
| Blue marlin | 126,519 | 104,864 | $124,647 | $ 1.19 |
| Black marlin | 642 | 239 | $277 | $ 1.16 |
| Striped marlin | 54,238 | 54,238 | $97,887 | $ 1.80 |
| Shortnose spearfish | 16,700 | 15,391 | $25,198 | $ 1.64 |
| Sailfish | 566 | 216 | $264 | $ 1.22 |
| Crabs | 165 | 165 | $988 | $ 6.00 |
| Shrimp (saltwater) | 14,082 | 0 | $0 | $ 0.00 |
| Octopus | 3,191 | 3,191 | $10,212 | $ 3.20 |
| Squid | 162 | 162 | $375 | $ 2.32 |
| Limpets (saltwater) | 484 | 484 | $5,153 | $10.64 |
| Invertebrates | 34 | 34 | $101 | $ 3.00 |
| Algae | 771 | 731 | $3,324 | $ 4.55 |
| TOTAL | 2,621,277 | 2,422,811 | $5,880,554 | $ 2.43 |

## Table D-9
## August 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 191 | 191 | $282 | $ 1.48 |
| Sharks | 38,293 | 23,744 | $10,985 | $ 0.46 |
| Eels | 50 | 50 | $50 | $ 1.00 |
| Bigeye scad (akule) | 37,309 | 12,059 | $26,121 | $ 2.17 |
| Mackerel scad | 16,068 | 11,725 | $28,176 | $ 2.40 |
| Leatherjacket | 76 | 35 | $43 | $ 1.23 |
| Ten pounder | 93 | 77 | $77 | $ 1.00 |
| Bonefish | 758 | 758 | $762 | $ 1.01 |
| Milkfish | 563 | 563 | $597 | $ 1.06 |
| Needlefish | 28 | 3 | $4 | $ 1.50 |
| Threadfin | 4 | 4 | $9 | $ 2.50 |
| Mullet | 659 | 659 | $2,212 | $ 3.35 |
| Pomfret | 55,705 | 52,594 | $129,849 | $ 2.47 |
| Oilfish | 16,721 | 16,721 | $49,822 | $ 2.98 |
| Jacks (misc) | 129 | 129 | $239 | $ 1.85 |
| Amberjack | 595 | 0 | $0 | $ 0.00 |
| Sasa ulua | 146 | 131 | $177 | $ 1.35 |
| Pig-lipped ulua | 343 | 266 | $717 | $ 2.69 |
| Papa ulua | 296 | 296 | $774 | $ 2.61 |
| White ulua | 2,300 | 2,300 | $4,585 | $ 1.99 |
| Black ulua | 44 | 9 | $16 | $ 1.75 |
| Blue trevally | 1,986 | 695 | $1,169 | $ 1.68 |
| Hawaiian grouper | 3,637 | 3,486 | $13,230 | $ 3.79 |
| Blue spot grouper | 44 | 10 | $20 | $ 2.00 |
| Snappers | 257 | 245 | $904 | $ 3.70 |
| Yellowtail kali | 14 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 4,453 | 4,186 | $4,548 | $ 1.09 |
| Ehu (red snapper) | 2,756 | 2,003 | $8,900 | $ 4.44 |
| Gindai (flower snapper) | 698 | 619 | $2,108 | $ 3.40 |
| Golden kalekale | 596 | 481 | $1,592 | $ 3.31 |
| Lehi (silverjaw) | 483 | 483 | $1,707 | $ 3.53 |
| Onaga (red snapper) | 3,718 | 3,566 | $25,402 | $ 7.12 |
| Opakapaka (pink snapper) | 4,740 | 4,478 | $25,464 | $ 5.69 |
| Uku (gray snapper) | 20,973 | 20,376 | $64,816 | $ 3.18 |
| Porgy | 179 | 119 | $289 | $ 2.42 |
| Other reef fish | 14 | 0 | $0 | $ 0.00 |
| Squirrelfish | 5,187 | 5,187 | $18,387 | $ 3.54 |
| Trumpetfish | 7 | 0 | $0 | $ 0.00 |
| Scorpionfish | 346 | 297 | $1,289 | $ 4.34 |
| Mountain bass | 228 | 97 | $283 | $ 2.92 |
| Bigeyes | 617 | 539 | $1,433 | $ 2.66 |
| Goatfish | 5,346 | 4,214 | $12,619 | $ 2.99 |
| Rudderfish | 8,326 | 8,326 | $7,900 | $ 0.95 |
| Damselfish | 323 | 203 | $534 | $ 2.63 |

**Table D-9**
**August 2005 Reported Commercial Landings (Cont.)**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Hawkfish | 120 | 120 | $307 | $ 2.56 |
| Tilapia | 421 | 0 | $0 | $ 0.00 |
| Wrasse | 671 | 630 | $2,305 | $ 3.66 |
| Parrotfish | 4,602 | 4,565 | $13,467 | $ 2.95 |
| Surgeon/tangs | 13,861 | 12,365 | $16,613 | $ 1.34 |
| Flounders | 20 | 20 | $25 | $ 1.24 |
| Filefish | 110 | 21 | $28 | $ 1.33 |
| Moonfish (opah) | 190,150 | 190,150 | $218,922 | $ 1.15 |
| Rainbow runner | 1,101 | 1,101 | $1,608 | $ 1.46 |
| Mahimahi (dolphin) | 91,491 | 90,391 | $295,142 | $ 3.27 |
| Barracudas | 5,889 | 5,889 | $2,674 | $ 0.45 |
| Wahoo | 75,207 | 66,730 | $210,567 | $ 3.16 |
| Tunas (misc) | 2,831 | 289 | $392 | $ 1.36 |
| Skipjack tuna | 165,644 | 155,184 | $264,160 | $ 1.70 |
| Yellowfin tuna | 275,598 | 275,598 | $730,394 | $ 2.65 |
| Albacore | 190,901 | 190,901 | $199,193 | $ 1.04 |
| Bigeye tuna | 900,887 | 866,476 | $3,153,289 | $ 3.64 |
| Kawakawa | 1,402 | 439 | $479 | $ 1.09 |
| Other billfish | 1,893 | 166 | $133 | $ 0.80 |
| Broadbill swordfish | 80,449 | 80,449 | $176,454 | $ 2.19 |
| Blue marlin | 111,343 | 107,043 | $127,626 | $ 1.19 |
| Black marlin | 313 | 90 | $105 | $ 1.16 |
| Striped marlin | 41,885 | 39,347 | $71,675 | $ 1.82 |
| Shortnose spearfish | 18,789 | 18,789 | $29,680 | $ 1.58 |
| Sailfish | 1,474 | 424 | $718 | $ 1.69 |
| Crabs | 2,356 | 471 | $2,075 | $ 4.41 |
| Shrimp (saltwater) | 16,473 | 24 | $216 | $ 9.00 |
| Octopus | 2,926 | 2,613 | $8,450 | $ 3.23 |
| Squid | 346 | 346 | $605 | $ 1.75 |
| Limpets (saltwater) | 462 | 462 | $4,144 | $ 8.96 |
| Invertebrates | 5 | 5 | $14 | $ 3.00 |
| Algae | 897 | 897 | $4,065 | $ 4.53 |
| TOTAL | 2,435,814 | 2,293,920 | $5,983,615 | $ 2.61 |

**Table D-10**
**September 2005 Reported Commercial Landings**

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 101 | 35 | $72 | $ 2.06 |
| Sharks | 27,528 | 22,308 | $12,877 | $ 0.58 |
| Eels | 14 | 14 | $15 | $ 1.09 |
| Bigeye scad (akule) | 10,049 | 8,253 | $19,381 | $ 2.35 |
| Mackerel scad | 27,139 | 17,251 | $42,358 | $ 2.46 |
| Leatherjacket | 22 | 22 | $29 | $ 1.31 |
| Ten pounder | 54 | 42 | $43 | $ 1.02 |
| Bonefish | 145 | 143 | $166 | $ 1.16 |
| Milkfish | 296 | 296 | $330 | $ 1.12 |
| Needlefish | 52 | 31 | $63 | $ 2.03 |
| Threadfin | 45 | 41 | $250 | $ 6.15 |
| Mullet | 1,350 | 1,344 | $4,798 | $ 3.57 |
| Pomfret | 65,007 | 55,244 | $116,950 | $ 2.12 |
| Oilfish | 14,853 | 14,354 | $43,084 | $ 3.00 |
| Jacks (misc) | 46 | 8 | $35 | $ 4.38 |
| Amberjack | 122 | 52 | $26 | $ 0.50 |
| Sasa ulua | 171 | 171 | $320 | $ 1.88 |
| Pig-lipped ulua | 1,411 | 821 | $2,412 | $ 2.94 |
| Papa ulua | 137 | 137 | $481 | $ 3.52 |
| White ulua | 545 | 403 | $796 | $ 1.97 |
| Black ulua | 121 | 10 | $20 | $ 2.00 |
| Blue trevally | 556 | 147 | $319 | $ 2.17 |
| Hawaiian grouper | 5,017 | 5,017 | $21,032 | $ 4.19 |
| Blue spot grouper | 22 | 8 | $17 | $ 2.01 |
| Snappers | 185 | 185 | $566 | $ 3.05 |
| Yellowtail kali | 1 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 2,987 | 2,553 | $3,020 | $ 1.18 |
| Ehu (red snapper) | 1,929 | 1,929 | $8,082 | $ 4.19 |
| Gindai (flower snapper) | 803 | 803 | $2,698 | $ 3.36 |
| Golden kalekale | 298 | 298 | $1,344 | $ 4.51 |
| Lehi (silverjaw) | 290 | 290 | $913 | $ 3.15 |
| Onaga (red snapper) | 4,156 | 3,011 | $21,791 | $ 7.24 |
| Opakapaka (pink snapper) | 2,664 | 2,378 | $13,803 | $ 5.81 |
| Uku (gray snapper) | 12,160 | 9,646 | $29,654 | $ 3.07 |
| Porgy | 136 | 68 | $117 | $ 1.72 |
| Reef jacks | 2 | 2 | $7 | $ 3.50 |
| Squirrelfish | 2,826 | 2,826 | $9,918 | $ 3.51 |
| Trumpetfish | 2 | 2 | $2 | $ 1.00 |
| Scorpionfish | 141 | 134 | $557 | $ 4.15 |
| Mountain bass | 355 | 176 | $636 | $ 3.60 |
| Bigeyes | 372 | 248 | $647 | $ 2.61 |
| Goatfish | 1,455 | 1,377 | $4,674 | $ 3.39 |
| Rudderfish | 503 | 298 | $321 | $ 1.08 |
| Damselfish | 216 | 64 | $154 | $ 2.41 |

## Table D-10
## September 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Hawkfish | 33 | 33 | $75 | $ 2.30 |
| Tilapia | 540 | 50 | $100 | $ 2.00 |
| Wrasse | 291 | 230 | $786 | $ 3.43 |
| Parrotfish | 2,781 | 2,014 | $5,986 | $ 2.97 |
| Surgeon/tangs | 9,967 | 6,538 | $9,308 | $ 1.42 |
| Flounders | 12 | 12 | $19 | $ 1.60 |
| Filefish | 19 | 19 | $37 | $ 1.92 |
| Moonfish (opah) | 166,621 | 163,978 | $185,465 | $ 1.13 |
| Rainbow runner | 577 | 425 | $662 | $ 1.56 |
| Mahimahi (dolphin) | 85,008 | 72,827 | $263,421 | $ 3.62 |
| Barracudas | 1,110 | 1,110 | $930 | $ 0.84 |
| Wahoo | 45,909 | 40,053 | $147,623 | $ 3.69 |
| Tunas (misc) | 3,164 | 533 | $6,433 | $12.07 |
| Skipjack tuna | 147,936 | 147,936 | $196,938 | $ 1.33 |
| Yellowfin tuna | 217,674 | 217,674 | $573,675 | $ 2.64 |
| Albacore | 69,928 | 69,928 | $110,702 | $ 1.58 |
| Bigeye tuna | 953,159 | 880,379 | $3,300,604 | $ 3.75 |
| Kawakawa | 449 | 51 | $62 | $ 1.21 |
| Other billfish | 255 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 10,673 | 9,367 | $28,993 | $ 3.10 |
| Blue marlin | 96,163 | 86,241 | $119,115 | $ 1.38 |
| Black marlin | 546 | 188 | $203 | $ 1.08 |
| Striped marlin | 31,671 | 31,671 | $64,820 | $ 2.05 |
| Shortnose spearfish | 16,011 | 14,973 | $24,417 | $ 1.63 |
| Sailfish | 1,249 | 889 | $1,548 | $ 1.74 |
| Spiny lobster | 1,976 | 1,727 | $20,075 | $11.63 |
| Slipper lobster | 10 | 0 | $0 | $ 0.00 |
| Crabs | 4,215 | 890 | $3,694 | $ 4.15 |
| Shrimp (saltwater) | 8,649 | 0 | $0 | $ 0.00 |
| Octopus | 2,096 | 1,577 | $5,179 | $ 3.28 |
| Squid | 387 | 387 | $708 | $ 1.83 |
| Limpets (saltwater) | 330 | 157 | $1,534 | $ 9.75 |
| Algae | 554 | 554 | $2,530 | $ 4.57 |
| TOTAL | 2,066,241 | 1,904,846 | $5,440,416 | $ 2.86 |

## Table D-11
## October 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 237 | 237 | $136 | $ 0.57 |
| Sharks | 49,752 | 16,687 | $6,954 | $ 0.42 |
| Eels | 150 | 150 | $169 | $ 1.13 |
| Bigeye scad (akule) | 8,334 | 8,334 | $11,603 | $ 1.39 |
| Mackerel scad | 42,291 | 23,773 | $55,777 | $ 2.35 |
| Leatherjacket | 81 | 11 | $12 | $ 1.14 |
| Ten pounder | 12 | 12 | $12 | $ 1.00 |
| Bonefish | 607 | 524 | $532 | $ 1.02 |
| Milkfish | 19 | 19 | $19 | $ 1.00 |
| Needlefish | 144 | 73 | $110 | $ 1.51 |
| Threadfin | 80 | 55 | $233 | $ 4.24 |
| Mullet | 520 | 520 | $1,601 | $ 3.08 |
| Pomfret | 67,960 | 67,960 | $134,050 | $ 1.97 |
| Oilfish | 21,233 | 21,233 | $50,523 | $ 2.38 |
| Jacks (misc) | 55 | 33 | $38 | $ 1.14 |
| Amberjack | 147 | 22 | $11 | $ 0.50 |
| Sasa ulua | 367 | 176 | $410 | $ 2.34 |
| Pig-lipped ulua | 1,466 | 1,466 | $4,380 | $ 2.99 |
| Papa ulua | 201 | 137 | $468 | $ 3.41 |
| White ulua | 771 | 636 | $1,066 | $ 1.68 |
| Black ulua | 58 | 58 | $128 | $ 2.20 |
| Blue trevally | 378 | 187 | $368 | $ 1.97 |
| Hawaiian grouper | 3,873 | 3,164 | $11,537 | $ 3.65 |
| Blue spot grouper | 72 | 59 | $138 | $ 2.34 |
| Snappers | 288 | 197 | $658 | $ 3.34 |
| Yellowtail kali | 8 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 3,707 | 3,707 | $4,924 | $ 1.33 |
| Ehu (red snapper) | 1,440 | 1,124 | $5,547 | $ 4.94 |
| Gindai (flower snapper) | 636 | 575 | $1,664 | $ 2.89 |
| Golden kalekale | 465 | 353 | $1,375 | $ 3.90 |
| Lehi (silverjaw) | 206 | 186 | $740 | $ 3.98 |
| Onaga (red snapper) | 7,211 | 4,976 | $37,674 | $ 7.57 |
| Opakapaka (pink snapper) | 3,038 | 3,038 | $17,298 | $ 5.69 |
| Uku (gray snapper) | 11,889 | 11,889 | $38,573 | $ 3.24 |
| Porgy | 233 | 233 | $744 | $ 3.20 |
| Other reef fish | 21 | 3 | $10 | $ 3.00 |
| Squirrelfish | 2,858 | 2,858 | $10,202 | $ 3.57 |
| Scorpionfish | 192 | 115 | $502 | $ 4.38 |
| Mountain bass | 155 | 150 | $653 | $ 4.36 |
| Bigeyes | 360 | 294 | $894 | $ 3.05 |
| Goatfish | 1,524 | 1,524 | $5,655 | $ 3.71 |
| Rudderfish | 236 | 236 | $273 | $ 1.16 |
| Damselfish | 84 | 84 | $156 | $ 1.85 |
| Hawkfish | 37 | 37 | $97 | $ 2.64 |

## Table D-11
## October 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Wrasse | 565 | 565 | $1,427 | $ 2.52 |
| Parrotfish | 2,697 | 2,135 | $6,336 | $ 2.97 |
| Surgeon/tangs | 8,022 | 8,022 | $11,266 | $ 1.40 |
| Flounders | 24 | 24 | $24 | $ 1.00 |
| Filefish | 37 | 37 | $204 | $ 5.55 |
| Pufferfish | 5 | 0 | $0 | $ 0.00 |
| Other pelagic | 96 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 119,054 | 119,054 | $186,655 | $ 1.57 |
| Rainbow runner | 283 | 236 | $420 | $ 1.78 |
| Mahimahi (dolphin) | 149,474 | 130,980 | $313,192 | $ 2.39 |
| Barracudas | 294 | 163 | $272 | $ 1.67 |
| Wahoo | 34,605 | 32,287 | $113,188 | $ 3.51 |
| Tunas (misc) | 7,659 | 7,659 | $22,485 | $ 2.94 |
| Skipjack tuna | 62,735 | 55,218 | $79,871 | $ 1.45 |
| Yellowfin tuna | 190,258 | 184,357 | $412,136 | $ 2.24 |
| Albacore | 33,135 | 33,135 | $60,001 | $ 1.81 |
| Bigeye tuna | 1,192,628 | 1,167,314 | $3,692,371 | $ 3.16 |
| Kawakawa | 351 | 134 | $210 | $ 1.57 |
| Other billfish | 1,662 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 9,526 | 8,175 | $23,150 | $ 2.83 |
| Blue marlin | 75,393 | 69,500 | $97,968 | $ 1.41 |
| Black marlin | 432 | 137 | $217 | $ 1.58 |
| Striped marlin | 57,032 | 57,032 | $102,004 | $ 1.79 |
| Shortnose spearfish | 27,726 | 21,851 | $28,814 | $ 1.32 |
| Sailfish | 5,470 | 2,676 | $2,691 | $ 1.01 |
| Spiny lobster | 1,374 | 1,019 | $10,756 | $10.55 |
| Slipper lobster | 38 | 4 | $29 | $ 8.00 |
| Crabs | 3,390 | 677 | $2,631 | $ 3.89 |
| Shrimp (saltwater) | 31 | 0 | $0 | $ 0.00 |
| Octopus | 2,671 | 1,774 | $5,753 | $ 3.24 |
| Squid | 130 | 23 | $70 | $ 3.00 |
| Limpets (saltwater) | 303 | 303 | $4,434 | $14.63 |
| Invertebrates | 32 | 32 | $286 | $ 8.93 |
| Algae | 869 | 631 | $3,835 | $ 6.08 |
| TOTAL | 2,221,389 | 2,082,253 | $5,590,607 | $ 2.68 |

## Table D-12
## November 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 124 | 124 | $61 | $ 0.49 |
| Sharks | 61,657 | 24,156 | $5,147 | $ 0.21 |
| Rays | 26 | 0 | $0 | $ 0.00 |
| Eels | 6 | 6 | $8 | $ 1.30 |
| Bigeye scad (akule) | 40,178 | 11,874 | $27,589 | $ 2.32 |
| Mackerel scad | 48,050 | 31,714 | $67,630 | $ 2.13 |
| Leatherjacket | 42 | 30 | $40 | $ 1.36 |
| Ten pounder | 49 | 44 | $50 | $ 1.13 |
| Bonefish | 289 | 51 | $56 | $ 1.11 |
| Milkfish | 270 | 235 | $296 | $ 1.26 |
| Needlefish | 88 | 11 | $24 | $ 2.14 |
| Threadfin | 138 | 82 | $512 | $ 6.22 |
| Mullet | 1,724 | 1,724 | $6,096 | $ 3.54 |
| Pomfret | 48,356 | 44,356 | $106,255 | $ 2.40 |
| Oilfish | 21,104 | 20,654 | $48,446 | $ 2.35 |
| Jacks (misc) | 154 | 86 | $190 | $ 2.22 |
| Amberjack | 718 | 24 | $29 | $ 1.21 |
| Sasa ulua | 178 | 34 | $96 | $ 2.80 |
| Pig-lipped ulua | 697 | 697 | $1,916 | $ 2.75 |
| Papa ulua | 971 | 513 | $1,619 | $ 3.16 |
| White ulua | 741 | 736 | $1,647 | $ 2.24 |
| Black ulua | 125 | 81 | $162 | $ 1.99 |
| Blue trevally | 170 | 29 | $73 | $ 2.54 |
| Hawaiian grouper | 3,964 | 3,421 | $17,415 | $ 5.09 |
| Blue spot grouper | 22 | 12 | $42 | $ 3.50 |
| Snappers | 183 | 183 | $176 | $ 0.96 |
| Blue lined snapper | 4,503 | 4,079 | $5,213 | $ 1.28 |
| Ehu (red snapper) | 3,199 | 1,966 | $11,061 | $ 5.63 |
| Gindai (flower snapper) | 637 | 503 | $2,037 | $ 4.05 |
| Golden kalekale | 867 | 695 | $2,531 | $ 3.64 |
| Lehi (silverjaw) | 659 | 658 | $2,388 | $ 3.63 |
| Onaga (red snapper) | 13,016 | 8,563 | $59,705 | $ 6.97 |
| Opakapaka (pink snapper) | 12,856 | 11,320 | $66,262 | $ 5.85 |
| Uku (gray snapper) | 8,991 | 7,178 | $24,200 | $ 3.37 |
| Porgy | 108 | 108 | $187 | $ 1.73 |
| Other reef fish | 3 | 0 | $0 | $ 0.00 |
| Reef jacks | 1 | 1 | $3 | $ 3.00 |
| Squirrelfish | 3,496 | 3,496 | $13,026 | $ 3.73 |
| Trumpetfish | 1 | 1 | $2 | $ 1.50 |
| Scorpionfish | 257 | 173 | $860 | $ 4.96 |
| Mountain bass | 102 | 47 | $231 | $ 4.87 |
| Bigeyes | 394 | 394 | $1,366 | $ 3.47 |
| Goatfish | 4,949 | 3,821 | $10,618 | $ 2.78 |
| Rudderfish | 4,157 | 4,080 | $4,158 | $ 1.02 |

## Table D-12
## November 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Damselfish | 92 | 92 | $246 | $ 2.69 |
| Hawkfish | 18 | 15 | $35 | $ 2.35 |
| Tilapia | 548 | 548 | $742 | $ 1.35 |
| Wrasse | 447 | 307 | $1,789 | $ 5.83 |
| Parrotfish | 2,421 | 2,216 | $6,655 | $ 3.00 |
| Surgeon/tangs | 5,901 | 5,901 | $9,375 | $ 1.59 |
| Flounders | 10 | 4 | $4 | $ 1.00 |
| Filefish | 8 | 8 | $14 | $ 1.66 |
| Moonfish (opah) | 96,563 | 95,482 | $191,492 | $ 2.01 |
| Rainbow runner | 520 | 300 | $424 | $ 1.41 |
| Mahimahi (dolphin) | 222,515 | 181,016 | $351,464 | $ 1.94 |
| Barracudas | 1,356 | 1,230 | $1,400 | $ 1.14 |
| Wahoo | 37,579 | 32,545 | $115,024 | $ 3.53 |
| Tunas (misc) | 1,348 | 240 | $668 | $ 2.78 |
| Skipjack tuna | 47,619 | 32,995 | $52,136 | $ 1.58 |
| Yellowfin tuna | 242,603 | 233,762 | $502,251 | $ 2.15 |
| Albacore | 10,216 | 10,216 | $23,101 | $ 2.26 |
| Bigeye tuna | 1,204,920 | 1,073,435 | $3,497,490 | $ 3.26 |
| Kawakawa | 749 | 343 | $590 | $ 1.72 |
| Other billfish | 720 | 149 | $186 | $ 1.25 |
| Broadbill swordfish | 53,568 | 53,014 | $128,431 | $ 2.42 |
| Blue marlin | 69,033 | 54,656 | $75,263 | $ 1.38 |
| Black marlin | 139 | 139 | $161 | $ 1.16 |
| Striped marlin | 69,936 | 69,936 | $118,953 | $ 1.70 |
| Shortnose spearfish | 34,190 | 25,750 | $27,139 | $ 1.05 |
| Sailfish | 3,354 | 1,171 | $1,331 | $ 1.14 |
| Spiny lobster | 1,385 | 1,193 | $13,612 | $11.41 |
| Crabs | 4,450 | 620 | $2,158 | $ 3.48 |
| Shrimp (saltwater) | 11,973 | 0 | $0 | $ 0.00 |
| Octopus | 1,809 | 1,333 | $4,340 | $ 3.26 |
| Squid | 282 | 282 | $432 | $ 1.53 |
| Limpets (saltwater) | 375 | 375 | $3,161 | $ 8.43 |
| Algae | 832 | 389 | $2,072 | $ 5.33 |
| TOTAL | 2,415,697 | 2,067,620 | $5,621,562 | $ 2.72 |

## Table D-13
## December 2005 Reported Commercial Landings

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Miscellaneous | 247 | 247 | $435 | $ 1.76 |
| Sharks | 47,835 | 23,167 | $3,761 | $ 0.16 |
| Eels | 18 | 4 | $6 | $ 1.50 |
| Bigeye scad (akule) | 61,897 | 14,112 | $30,479 | $ 2.16 |
| Mackerel scad | 36,863 | 22,353 | $45,519 | $ 2.04 |
| Leatherjacket | 15 | 15 | $19 | $ 1.28 |
| Ten pounder | 59 | 59 | $59 | $ 1.00 |
| Bonefish | 100 | 100 | $113 | $ 1.13 |
| Milkfish | 190 | 190 | $357 | $ 1.88 |
| Needlefish | 40 | 0 | $0 | $ 0.00 |
| Threadfin | 65 | 65 | $362 | $ 5.60 |
| Mullet | 11 | 1 | $3 | $ 2.00 |
| Pomfret | 39,198 | 36,571 | $93,582 | $ 2.56 |
| Oilfish | 37,462 | 37,462 | $56,481 | $ 1.51 |
| Jacks (misc) | 163 | 13 | $25 | $ 1.96 |
| Amberjack | 2,836 | 40 | $36 | $ 0.90 |
| Sasa ulua | 28 | 25 | $30 | $ 1.20 |
| Pig-lipped ulua | 1,332 | 1,214 | $2,222 | $ 1.83 |
| Dobe ulua | 20 | 20 | $41 | $ 2.00 |
| Papa ulua | 1,401 | 609 | $1,928 | $ 3.16 |
| White ulua | 1,070 | 617 | $1,212 | $ 1.96 |
| Black ulua | 361 | 361 | $507 | $ 1.40 |
| Blue trevally | 167 | 155 | $227 | $ 1.47 |
| Hawaiian grouper | 7,110 | 7,110 | $32,057 | $ 4.51 |
| Blue spot grouper | 31 | 0 | $0 | $ 0.00 |
| Snappers | 193 | 193 | $653 | $ 3.37 |
| Yellowtail kali | 9 | 0 | $0 | $ 0.00 |
| Blue lined snapper | 8,011 | 8,011 | $9,207 | $ 1.15 |
| Ehu (red snapper) | 9,016 | 7,095 | $29,403 | $ 4.14 |
| Gindai (flower snapper) | 802 | 580 | $2,005 | $ 3.46 |
| Golden kalekale | 2,423 | 1,656 | $5,509 | $ 3.33 |
| Lehi (silverjaw) | 1,864 | 1,540 | $4,505 | $ 2.92 |
| Onaga (red snapper) | 28,562 | 23,673 | $156,704 | $ 6.62 |
| Opakapaka (pink snapper) | 22,690 | 16,399 | $92,763 | $ 5.66 |
| Uku (gray snapper) | 11,370 | 11,370 | $35,071 | $ 3.08 |
| Porgy | 96 | 96 | $102 | $ 1.06 |
| Other reef fish | 6 | 0 | $0 | $ 0.00 |
| Reef jacks | 2 | 2 | $7 | $ 3.50 |
| Squirrelfish | 2,979 | 2,918 | $10,661 | $ 3.65 |
| Trumpetfish | 17 | 15 | $20 | $ 1.38 |
| Scorpionfish | 675 | 478 | $2,182 | $ 4.56 |
| Mountain bass | 109 | 109 | $414 | $ 3.79 |
| Bigeyes | 485 | 485 | $1,490 | $ 3.07 |
| Goatfish | 4,676 | 3,816 | $10,468 | $ 2.74 |

## Table D-13
## December 2005 Reported Commercial Landings (Cont.)

| Species | Caught | Sold | Value | Price/Lb. |
|---|---|---|---|---|
| Rudderfish | 194 | 193 | $221 | $ 1.14 |
| Damselfish | 357 | 131 | $343 | $ 2.61 |
| Hawkfish | 24 | 24 | $59 | $ 2.46 |
| Tilapia | 150 | 150 | $263 | $ 1.75 |
| Wrasse | 370 | 313 | $1,789 | $ 5.71 |
| Parrotfish | 1,717 | 1,537 | $4,524 | $ 2.94 |
| Surgeon/tangs | 6,839 | 5,369 | $8,095 | $ 1.51 |
| Flounders | 5 | 5 | $10 | $ 2.00 |
| Filefish | 23 | 23 | $41 | $ 1.75 |
| Other pelagic | 144 | 0 | $0 | $ 0.00 |
| Moonfish (opah) | 65,550 | 65,550 | $139,724 | $ 2.13 |
| Rainbow runner | 449 | 119 | $167 | $ 1.41 |
| Mahimahi (dolphin) | 199,350 | 176,894 | $275,649 | $ 1.56 |
| Barracudas | 956 | 392 | $393 | $ 1.00 |
| Wahoo | 53,236 | 49,402 | $137,646 | $ 2.79 |
| Tunas (misc) | 920 | 5 | $8 | $ 1.50 |
| Skipjack tuna | 45,977 | 33,428 | $46,464 | $ 1.39 |
| Yellowfin tuna | 281,917 | 273,016 | $572,153 | $ 2.10 |
| Albacore | 46,086 | 46,086 | $84,856 | $ 1.84 |
| Bigeye tuna | 1,297,334 | 1,297,334 | $4,628,165 | $ 3.57 |
| Kawakawa | 761 | 187 | $472 | $ 2.52 |
| Other billfish | 501 | 0 | $0 | $ 0.00 |
| Broadbill swordfish | 138,955 | 138,955 | $326,729 | $ 2.35 |
| Blue marlin | 44,807 | 28,733 | $38,733 | $ 1.35 |
| Black marlin | 141 | 141 | $328 | $ 2.32 |
| Striped marlin | 98,080 | 98,080 | $179,666 | $ 1.83 |
| Shortnose spearfish | 44,324 | 43,864 | $33,737 | $ 0.77 |
| Sailfish | 1,117 | 288 | $297 | $ 1.03 |
| Spiny lobster | 1,411 | 1,303 | $14,795 | $11.35 |
| Slipper lobster | 2 | 2 | $19 | $ 8.00 |
| Crabs | 5,714 | 1,998 | $7,967 | $ 3.99 |
| Shrimp (saltwater) | 10,080 | 0 | $0 | $ 0.00 |
| Octopus | 1,442 | 1,069 | $3,349 | $ 3.13 |
| Squid | 68 | 58 | $111 | $ 1.93 |
| Limpets (saltwater) | 376 | 376 | $4,009 | $10.65 |
| Invertebrates | 800 | 0 | $0 | $ 0.00 |
| Algae | 610 | 610 | $4,304 | $ 7.06 |
| TOTAL | 2,683,288 | 2,488,581 | $7,145,708 | $ 2.87 |

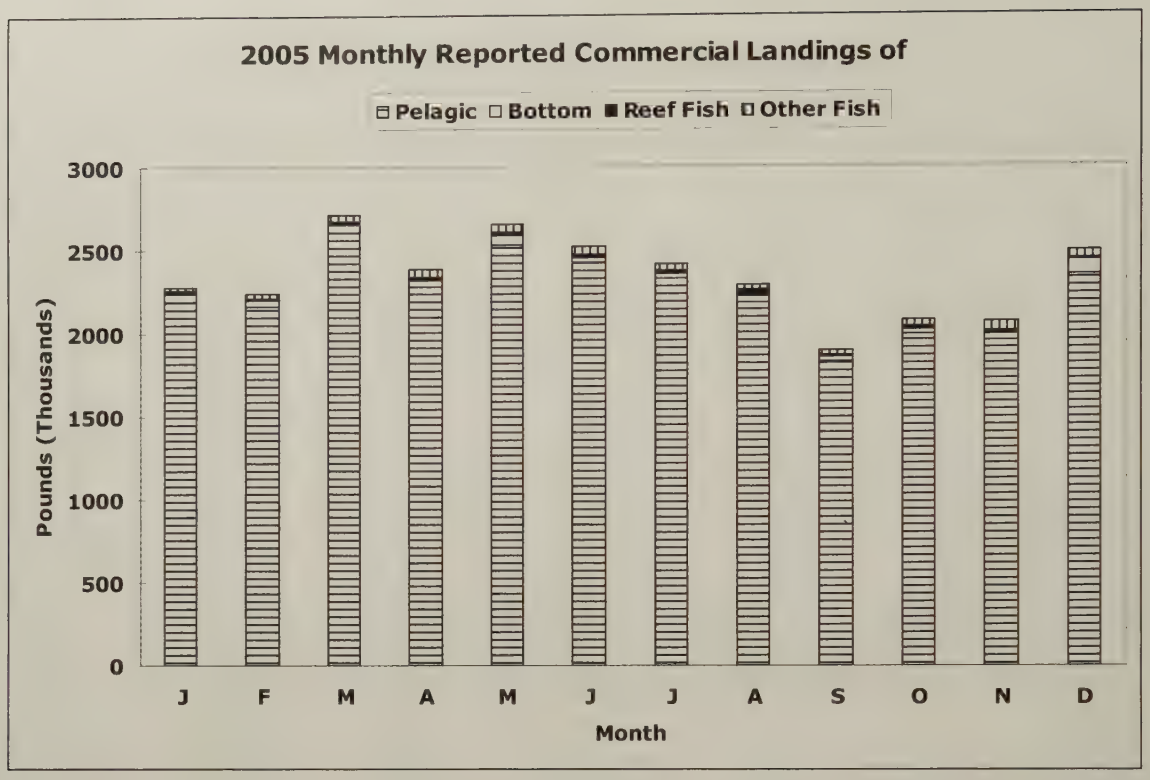



Figure D-1-1

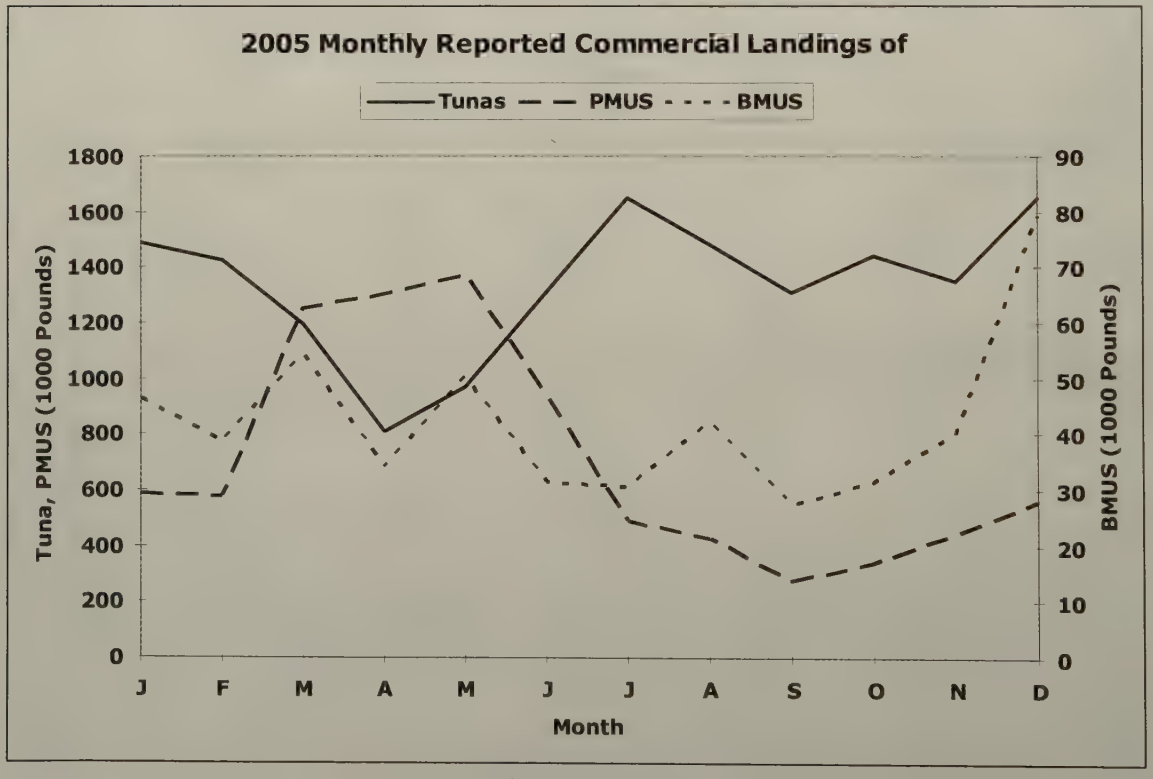



Figure D-1-2

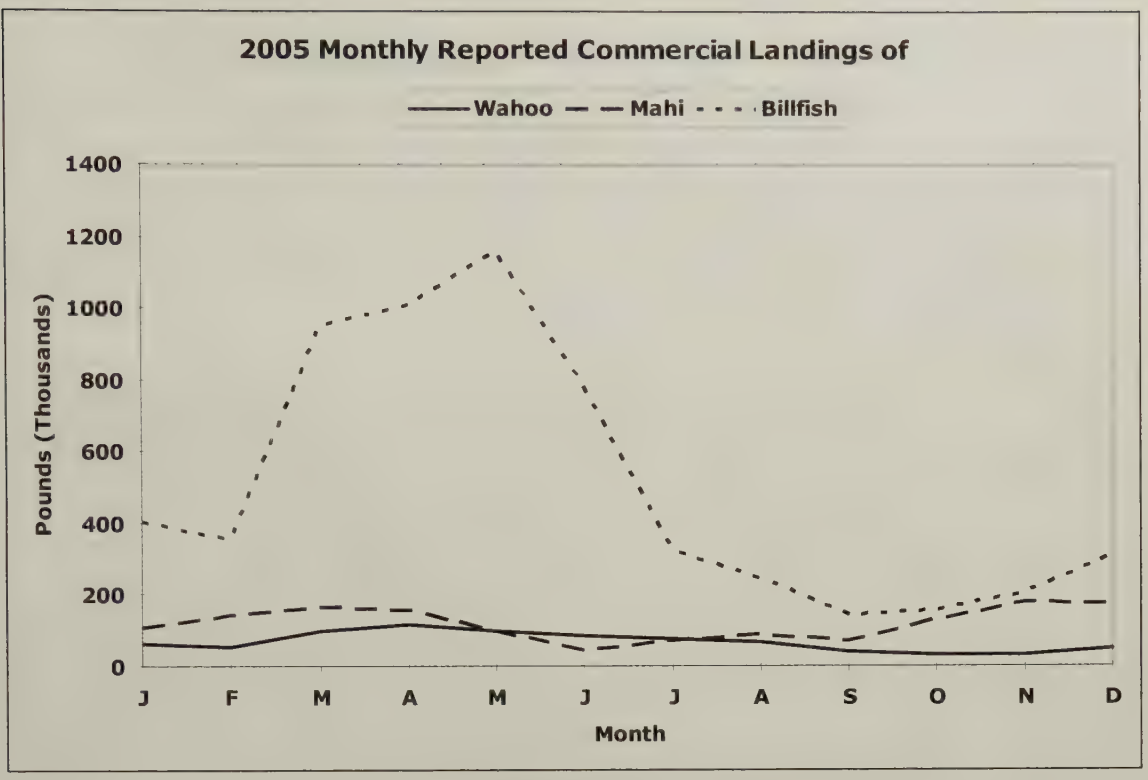



Figure D-1-3

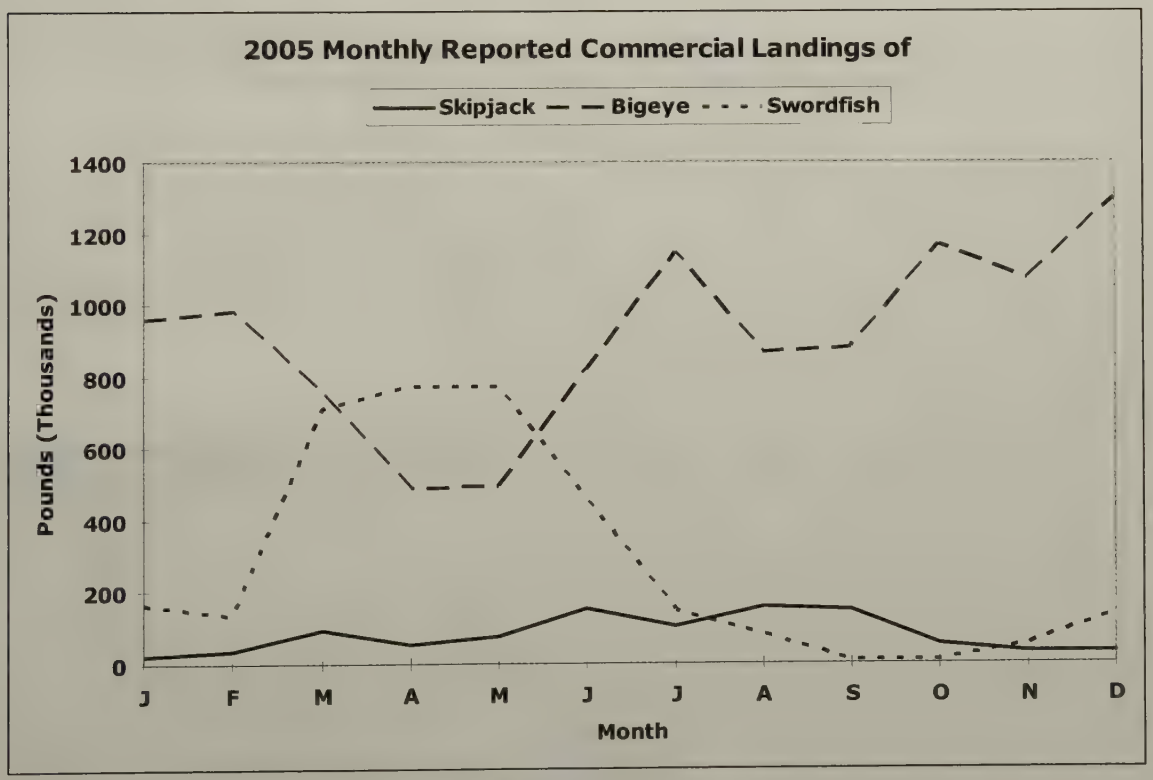
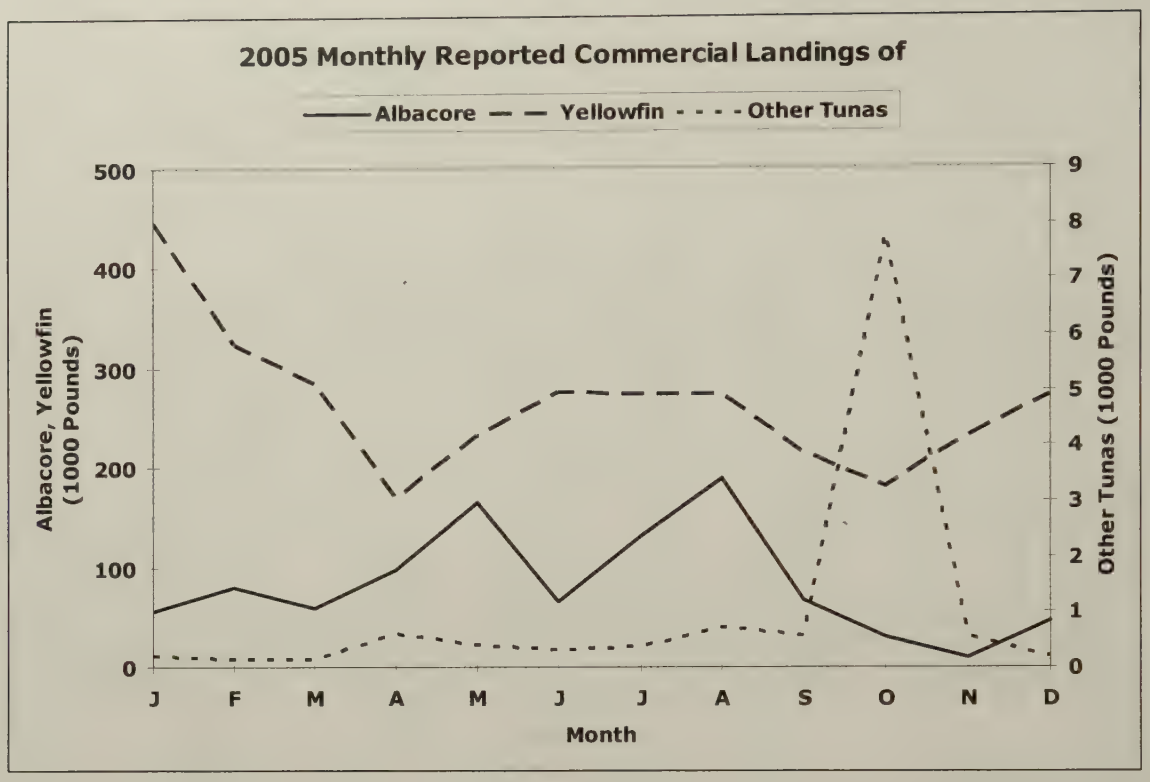



Figure D-1-4

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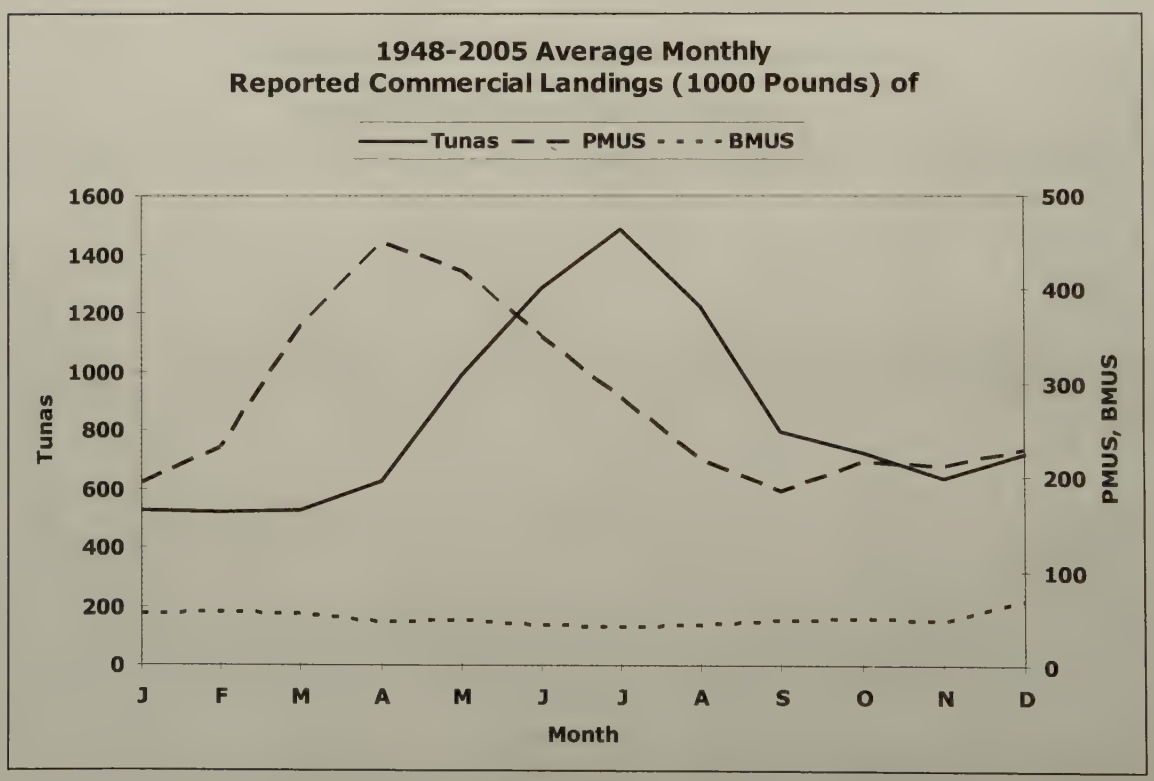


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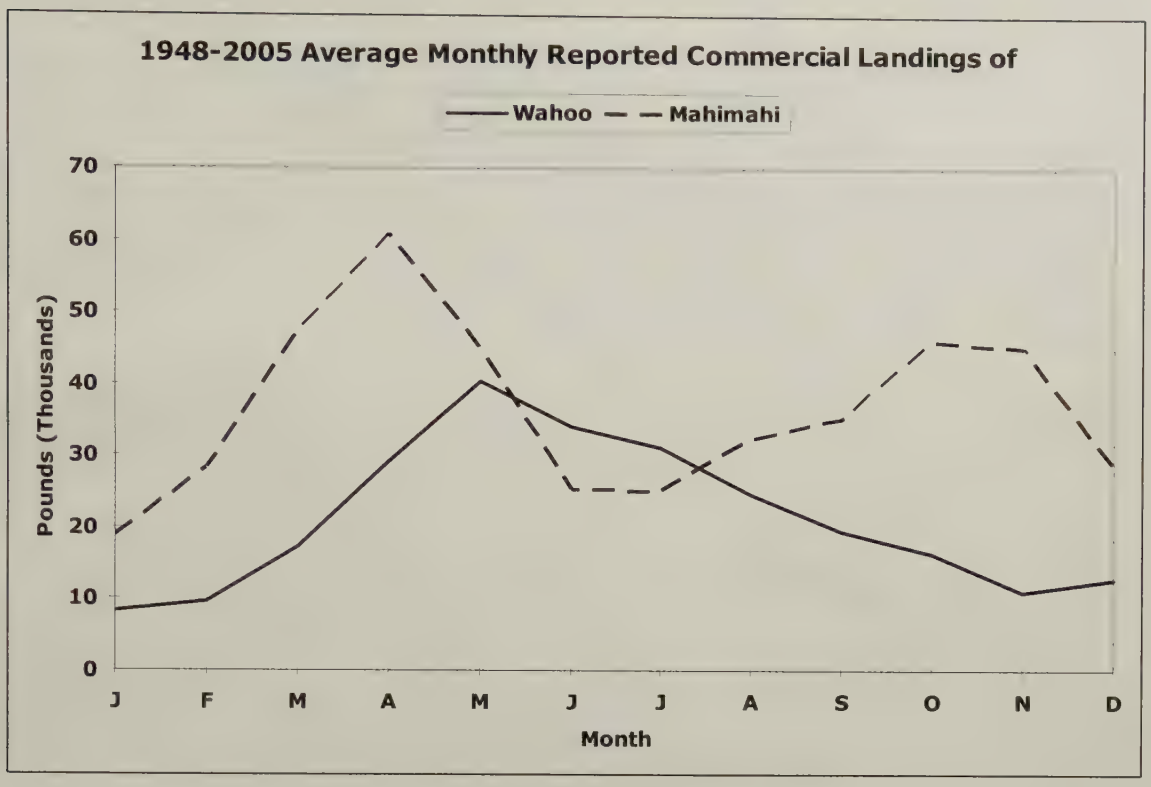


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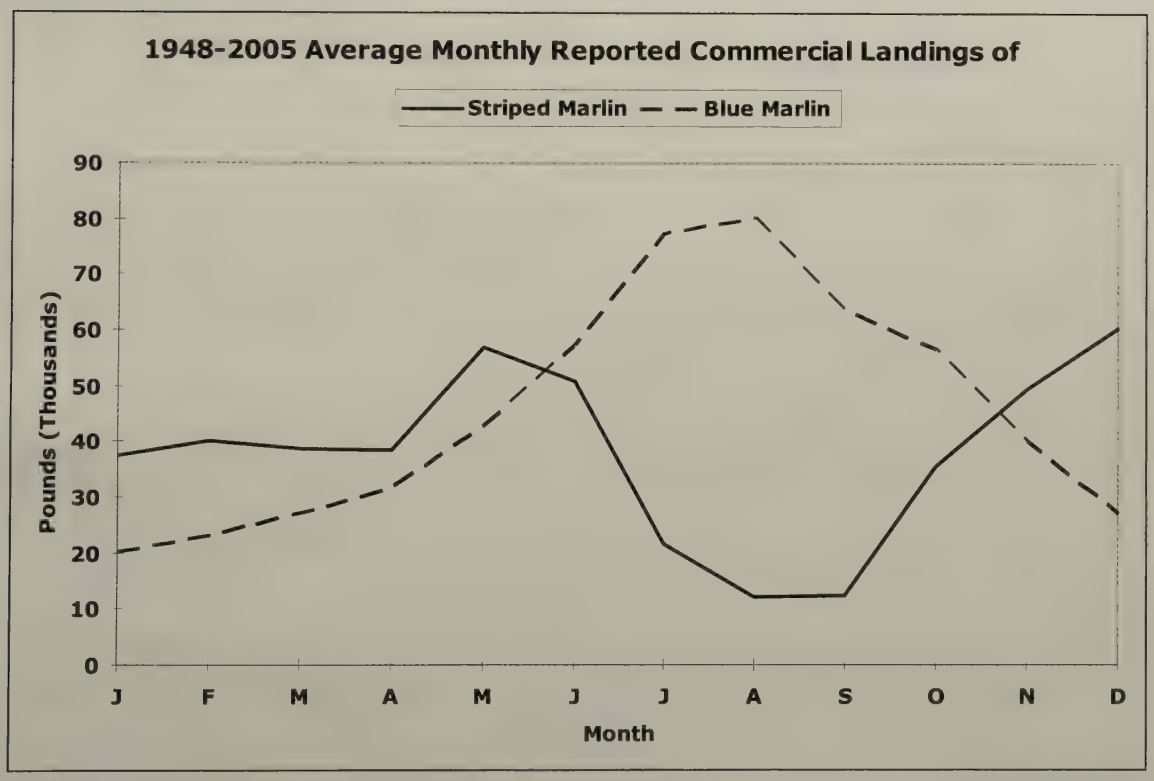


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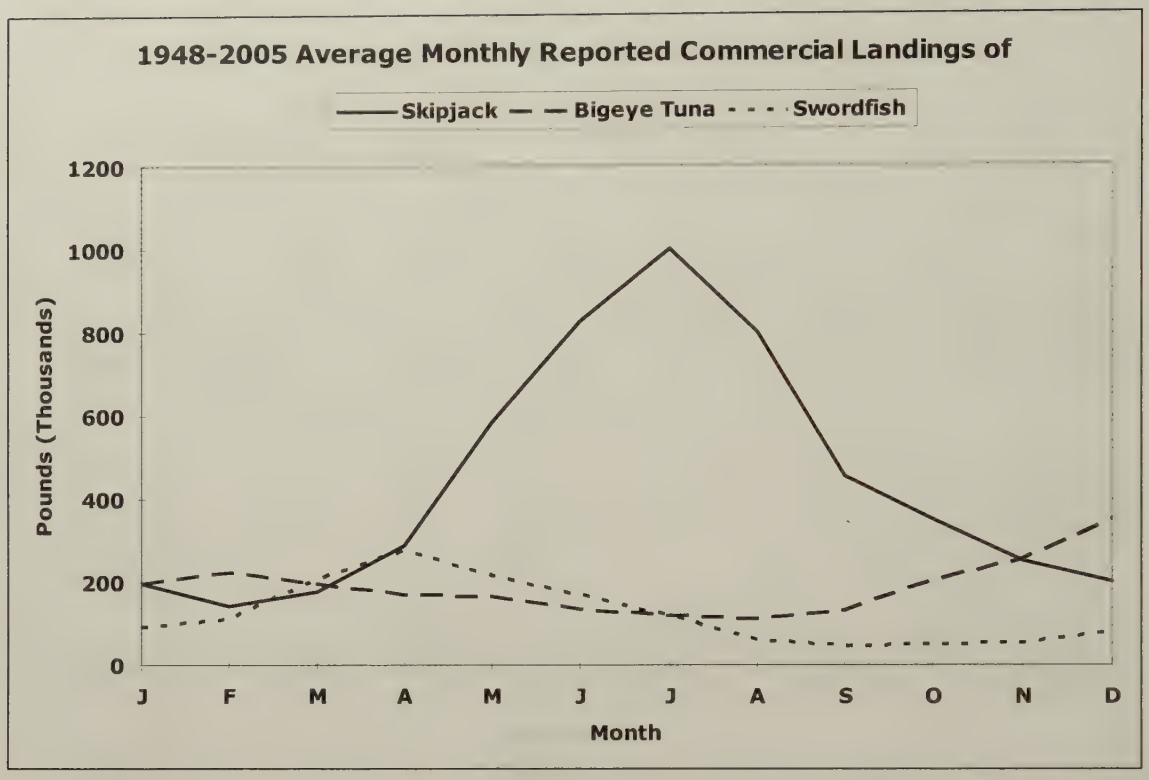


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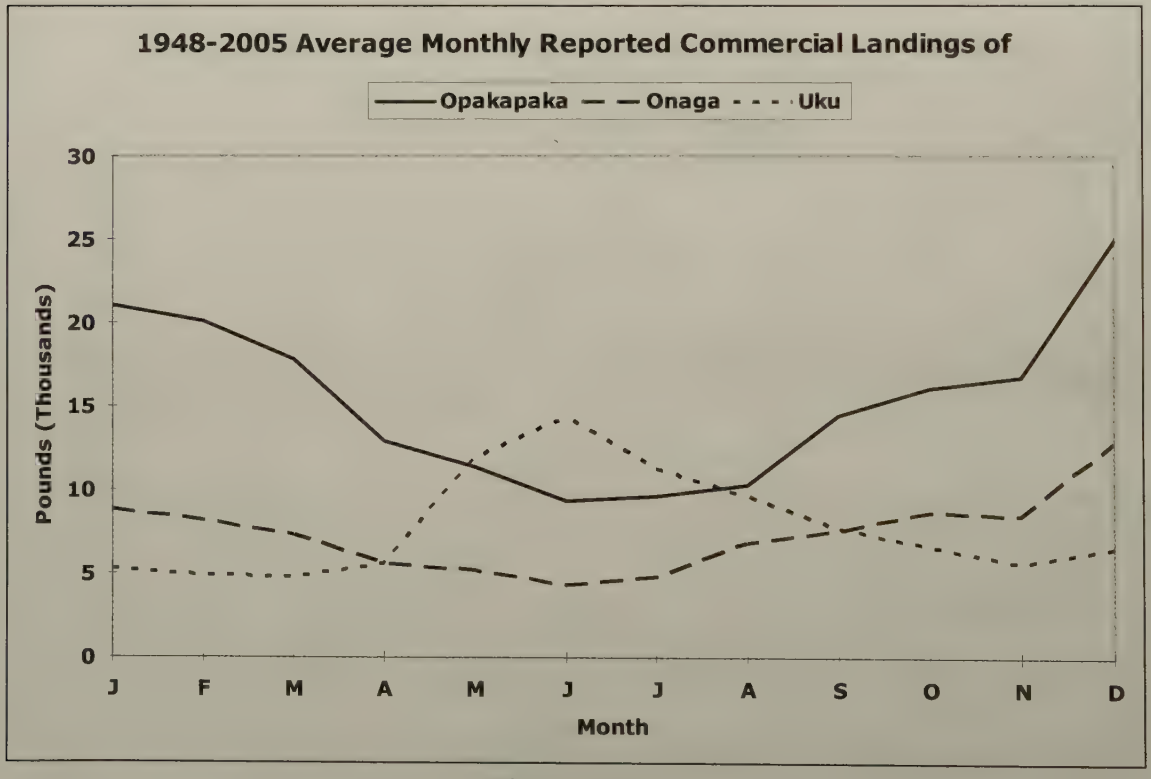


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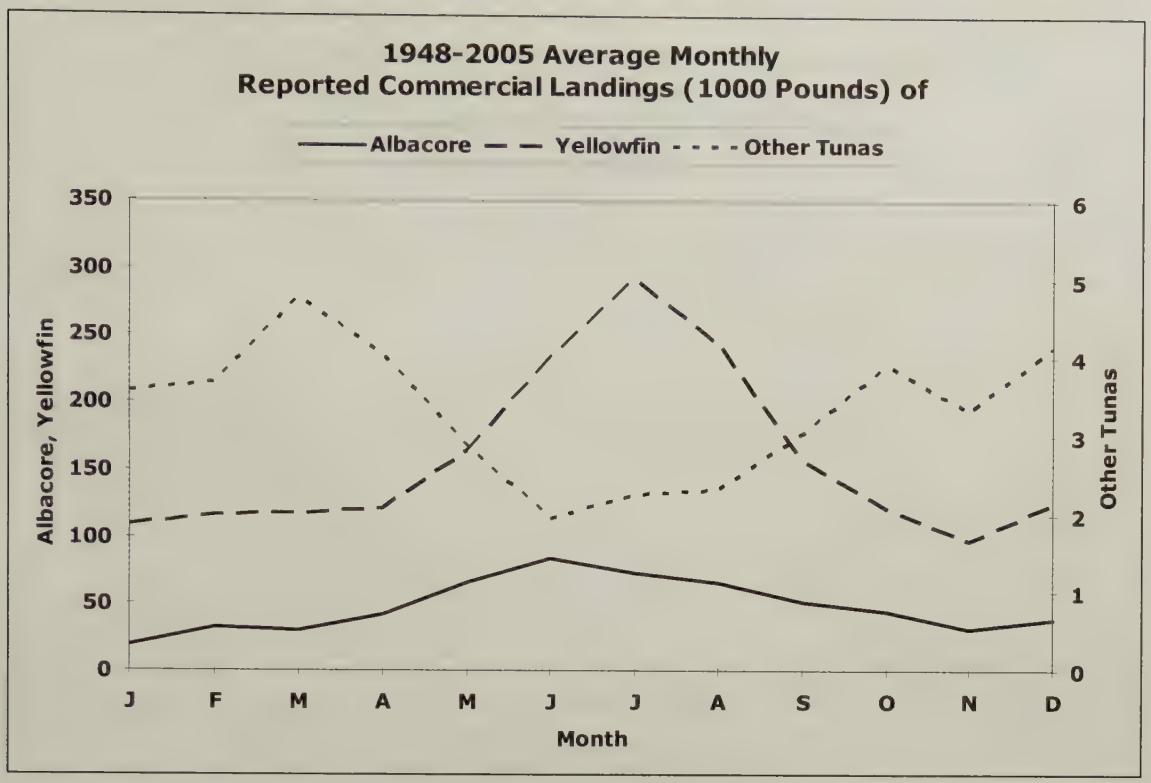


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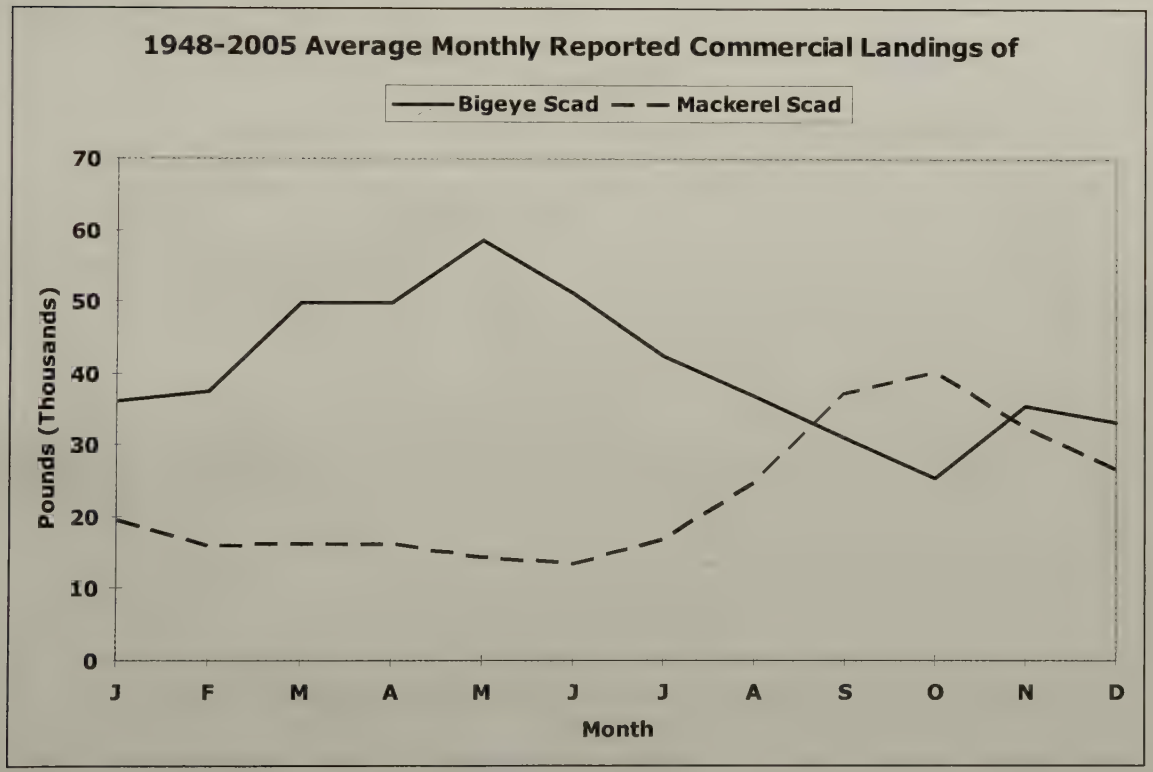


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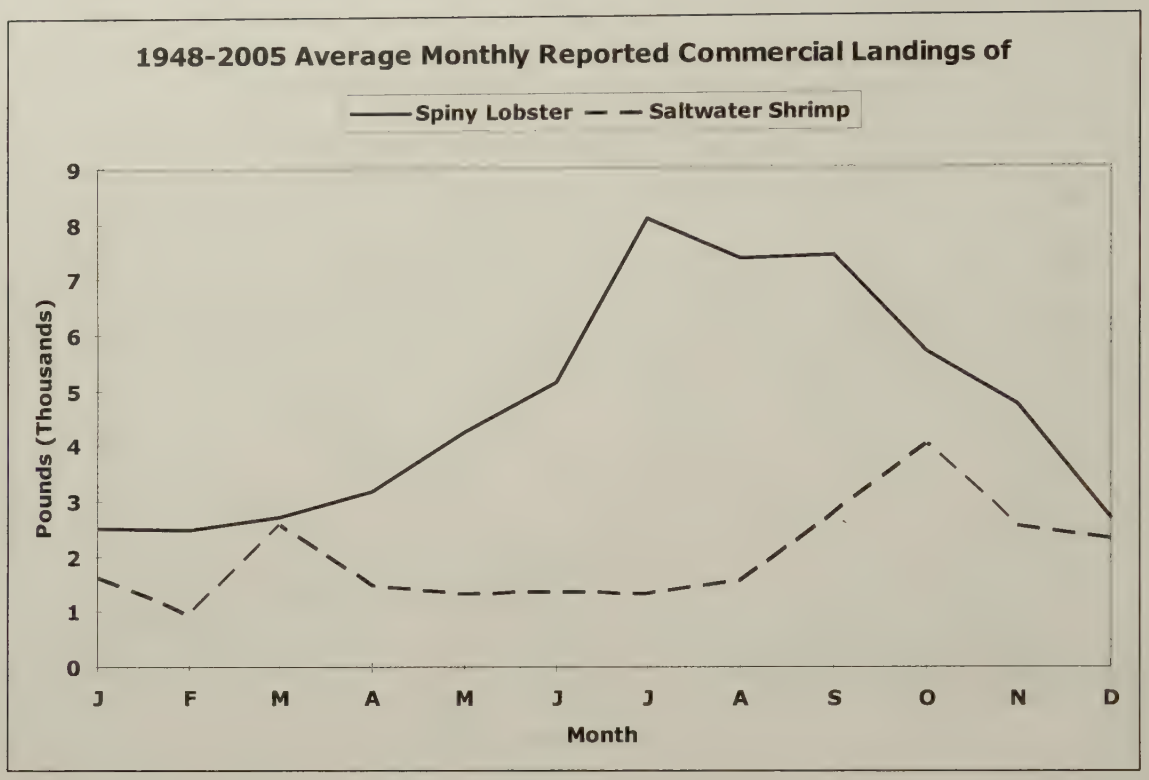


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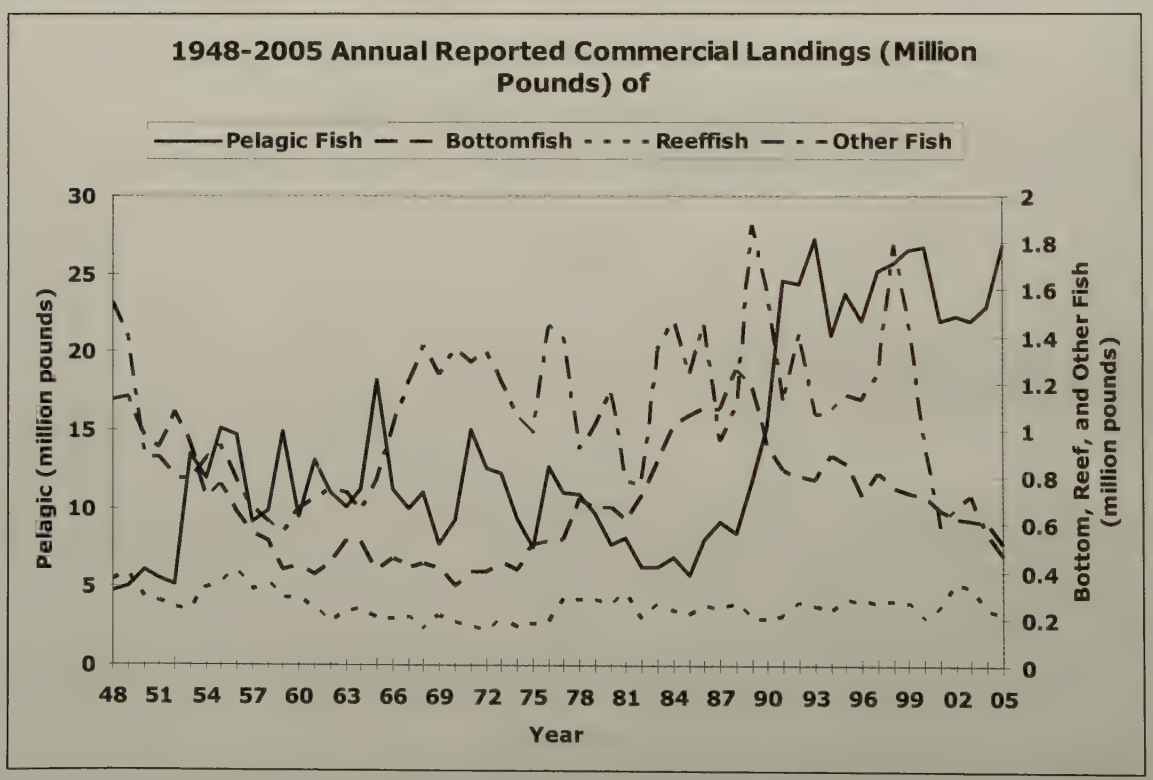


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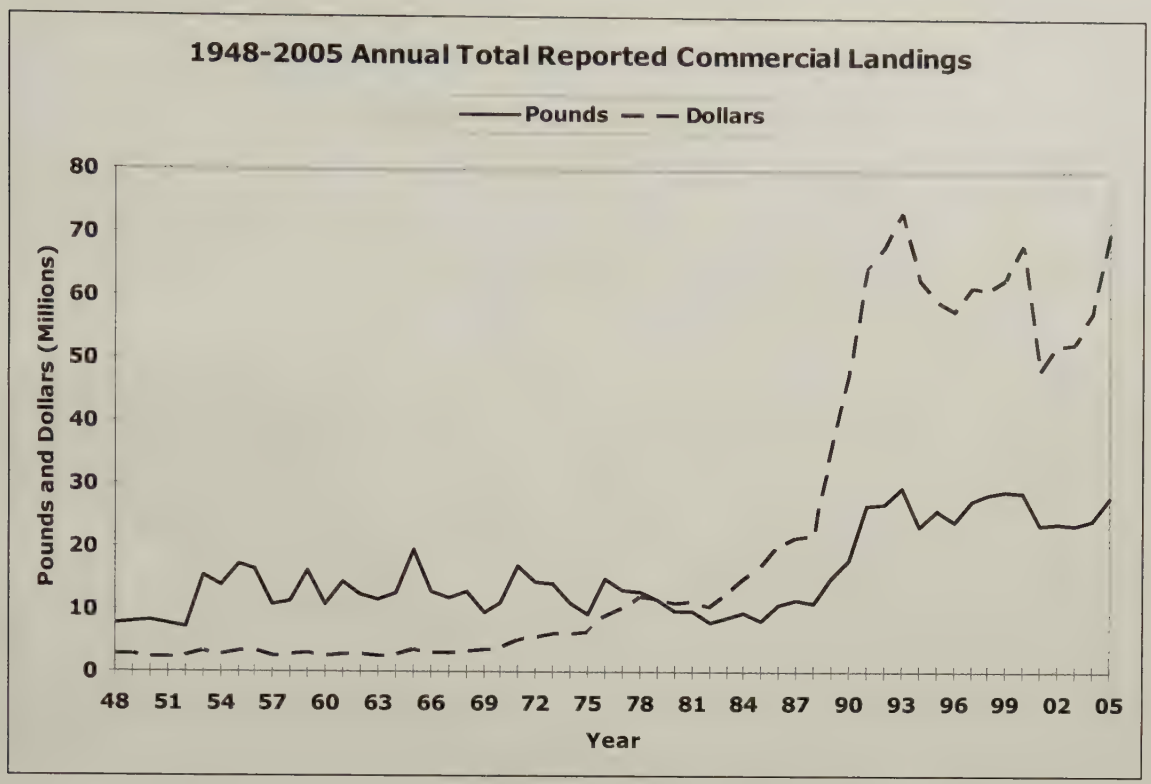


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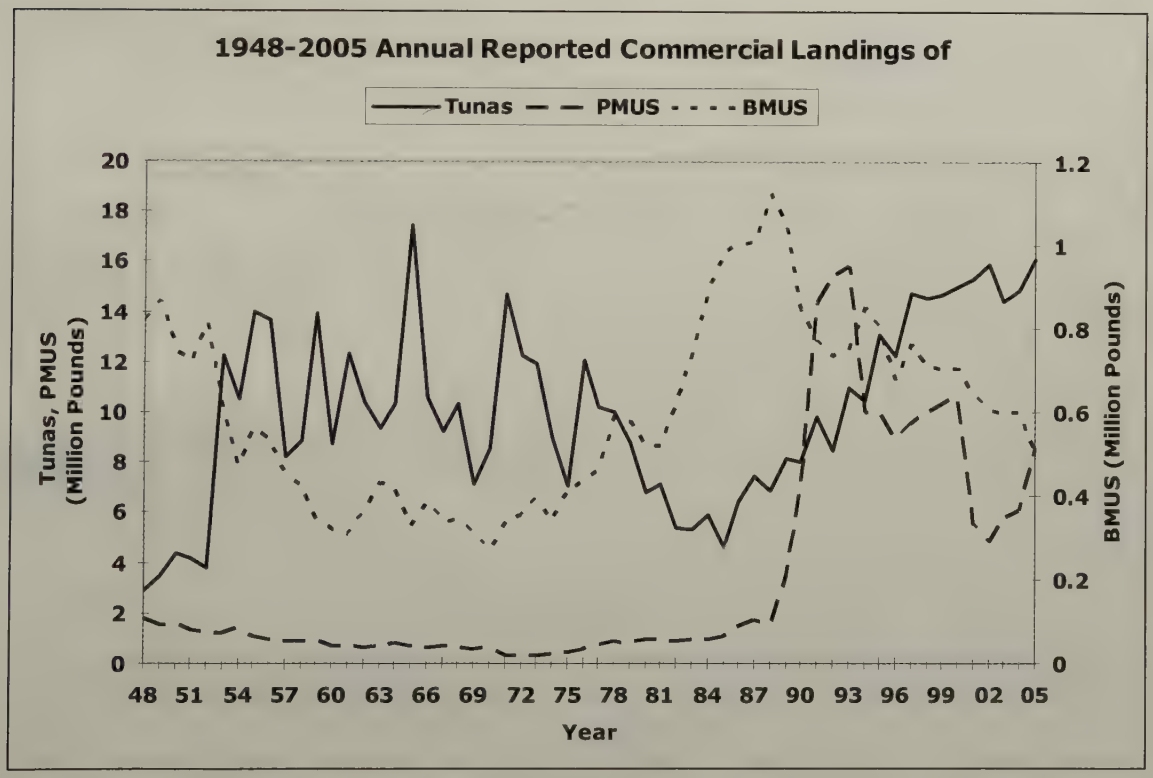


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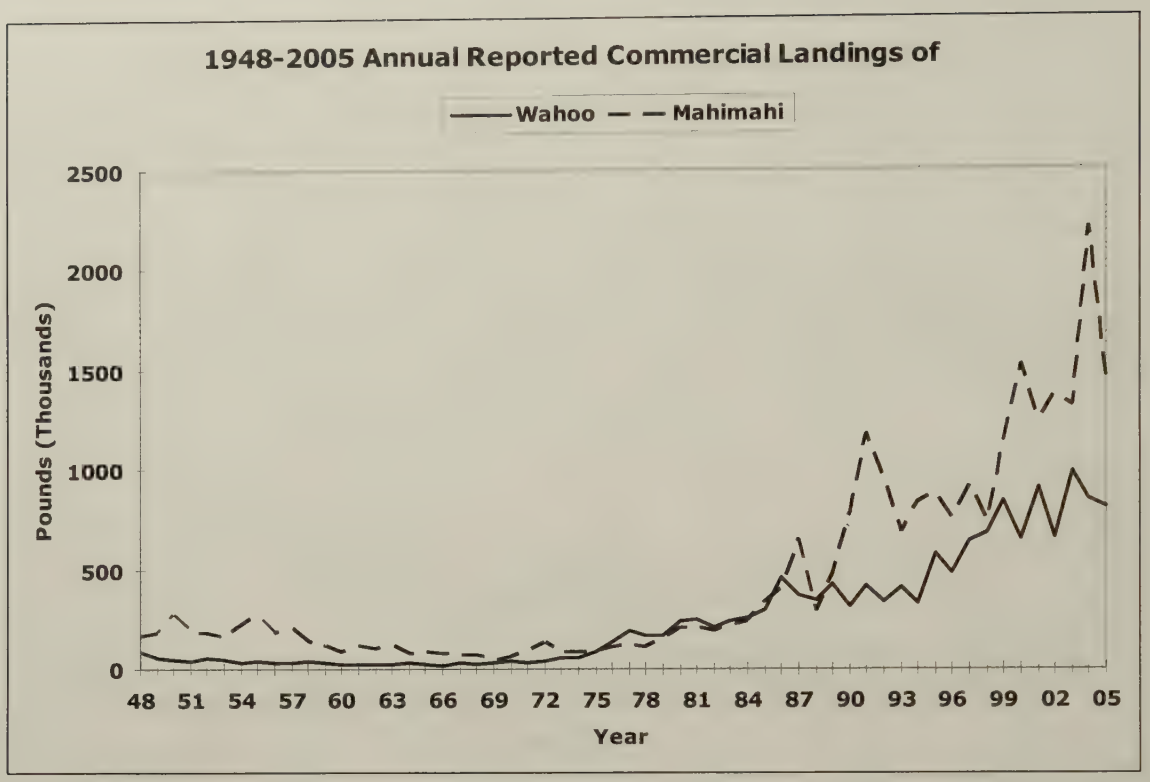


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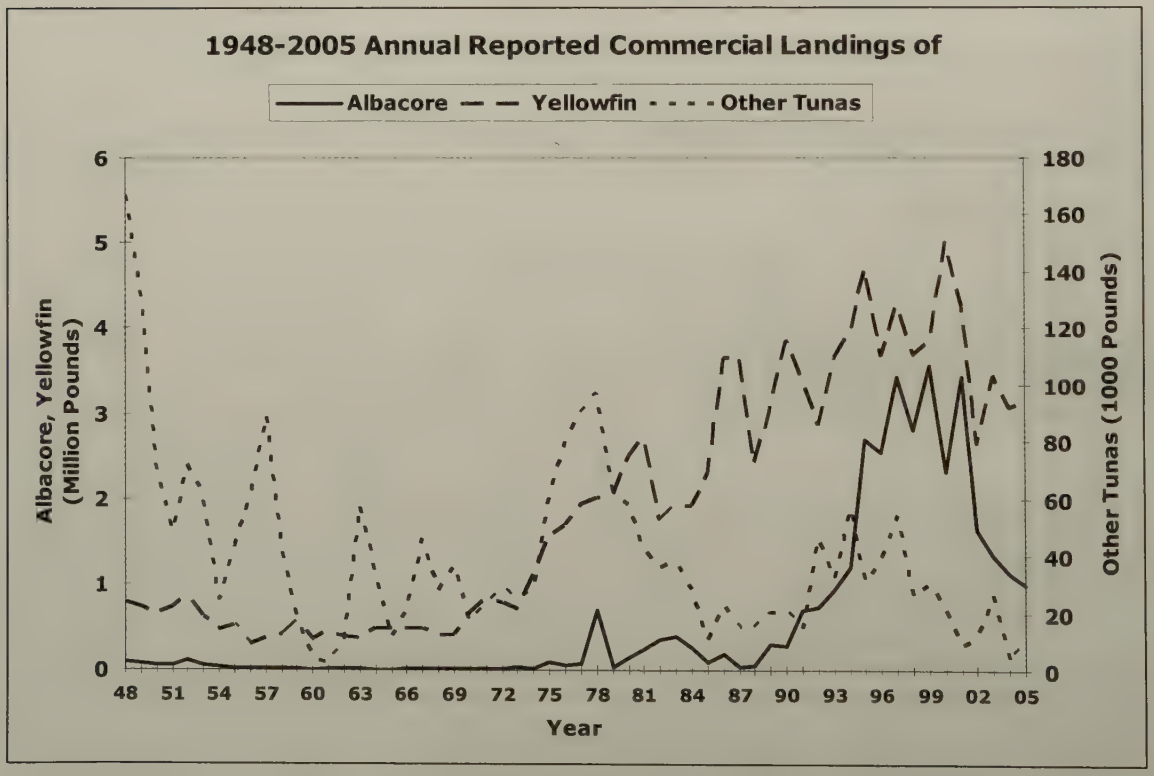


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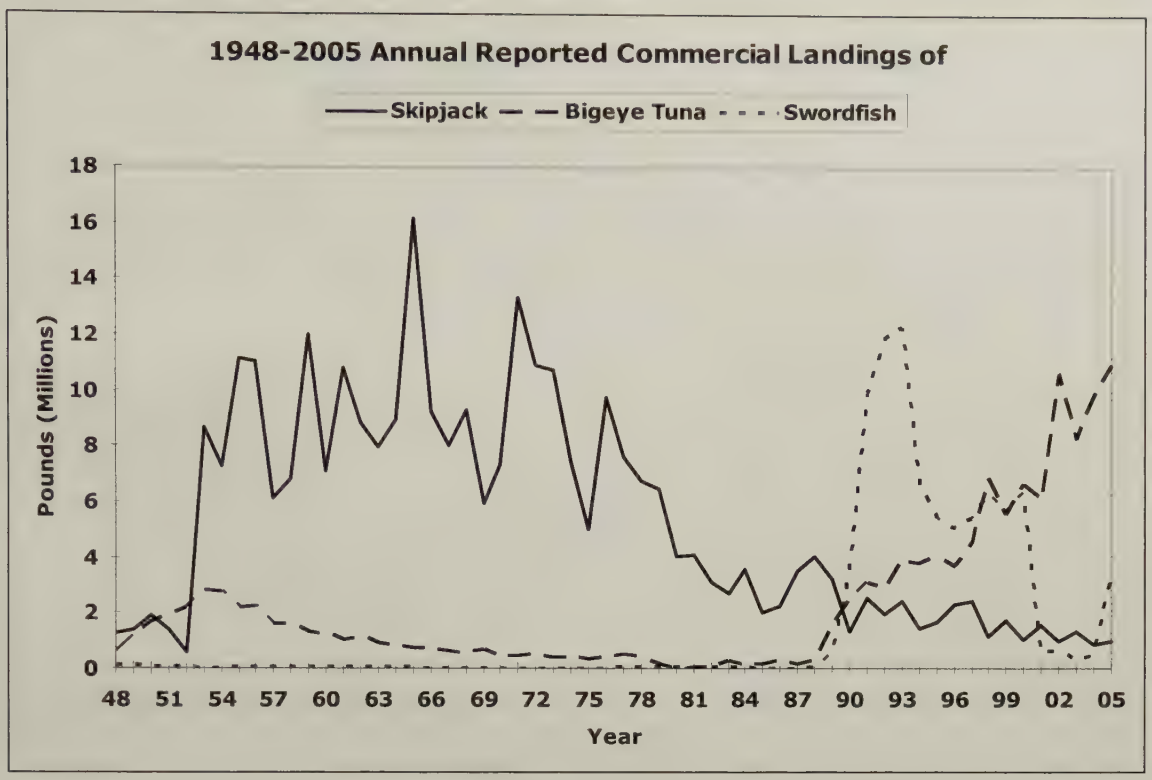


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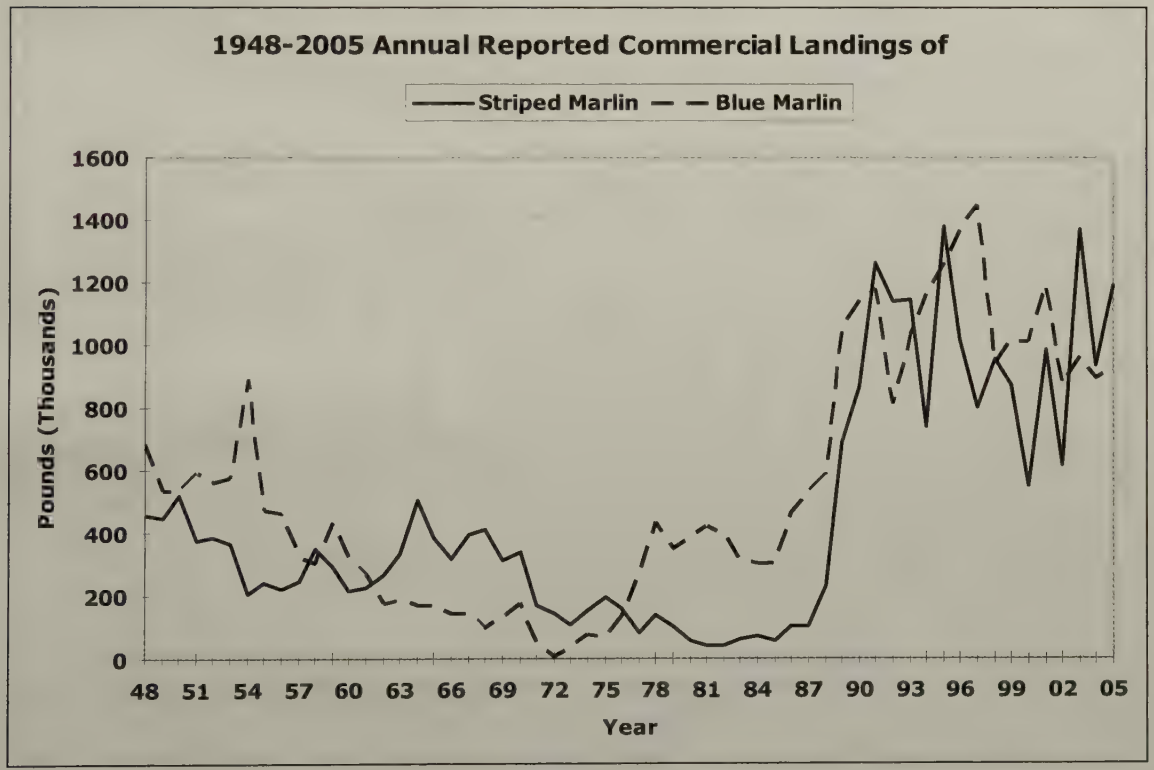


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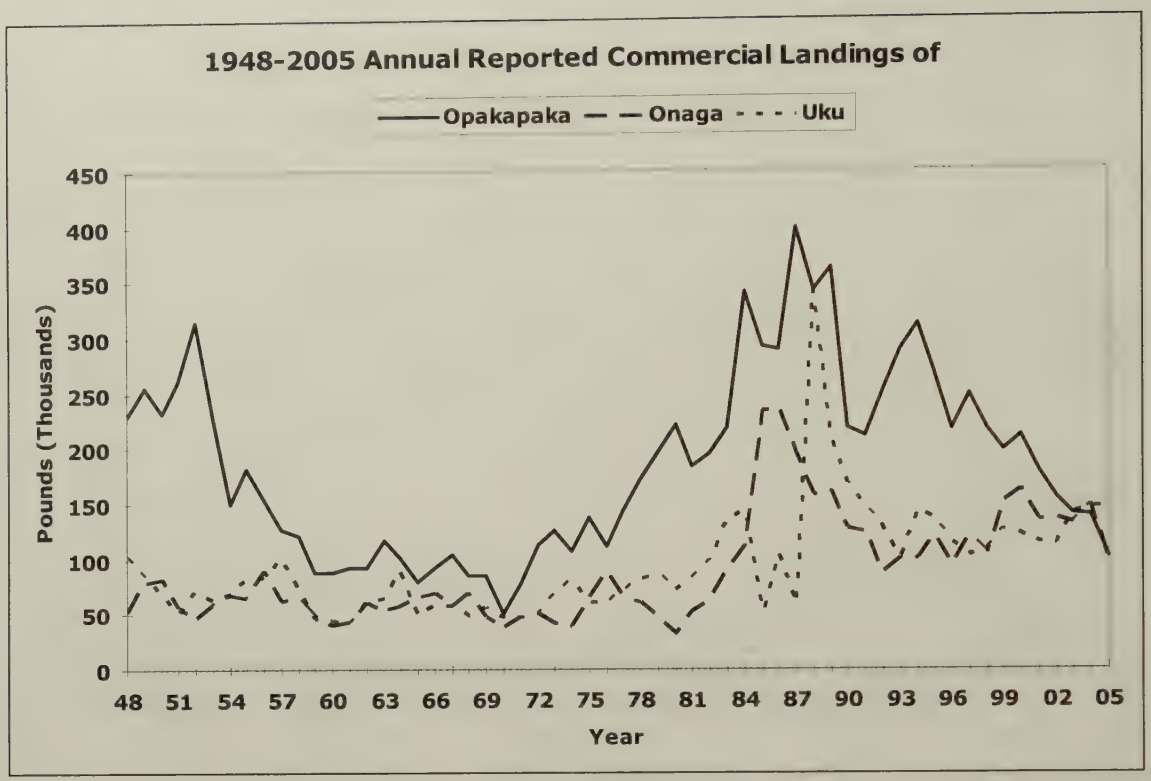


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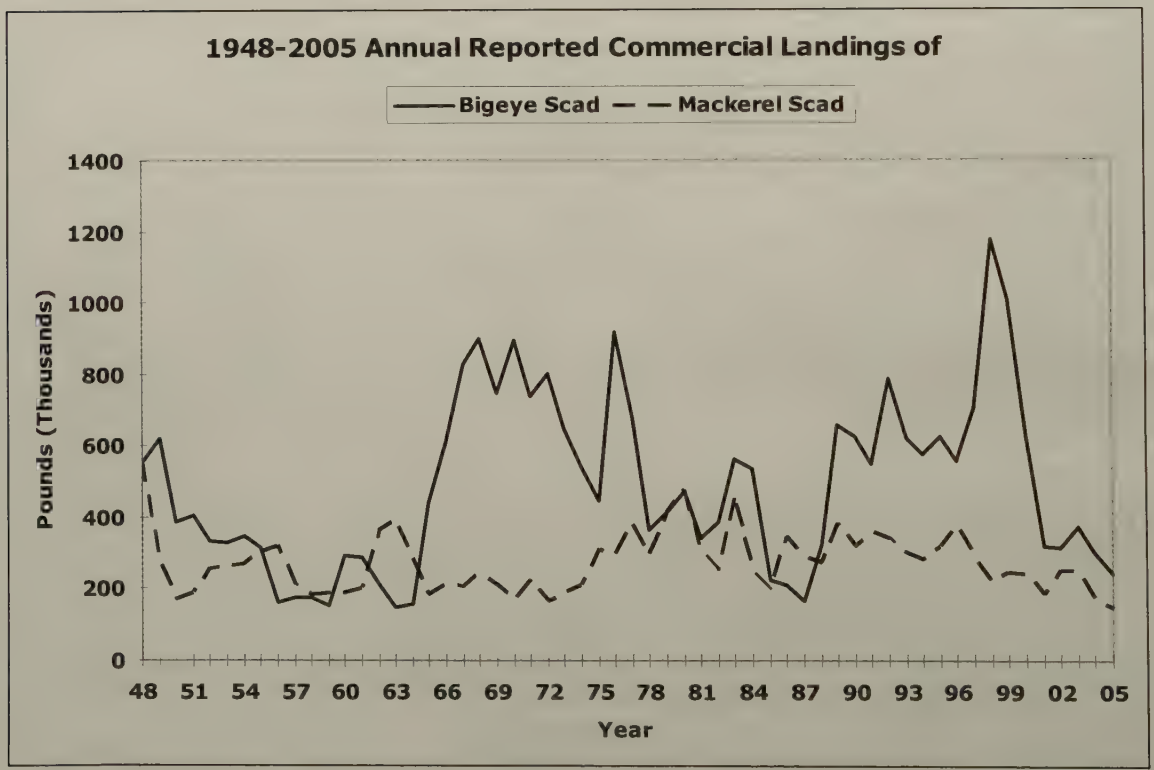


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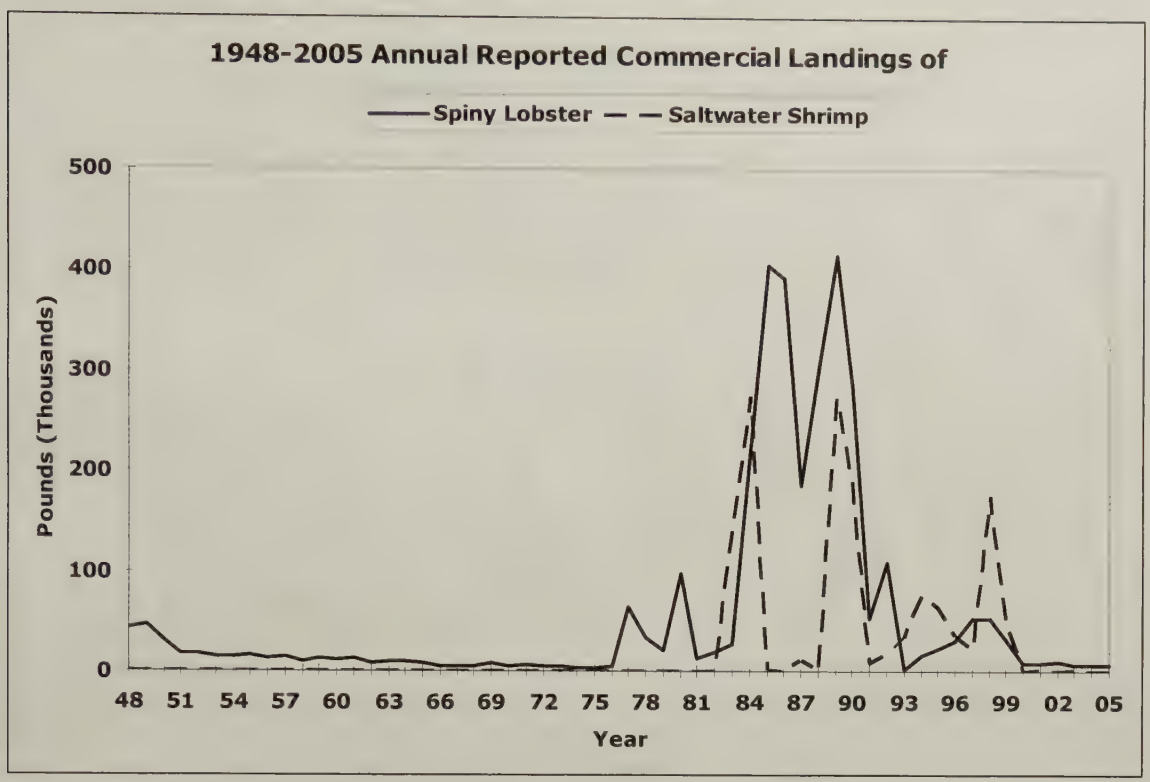


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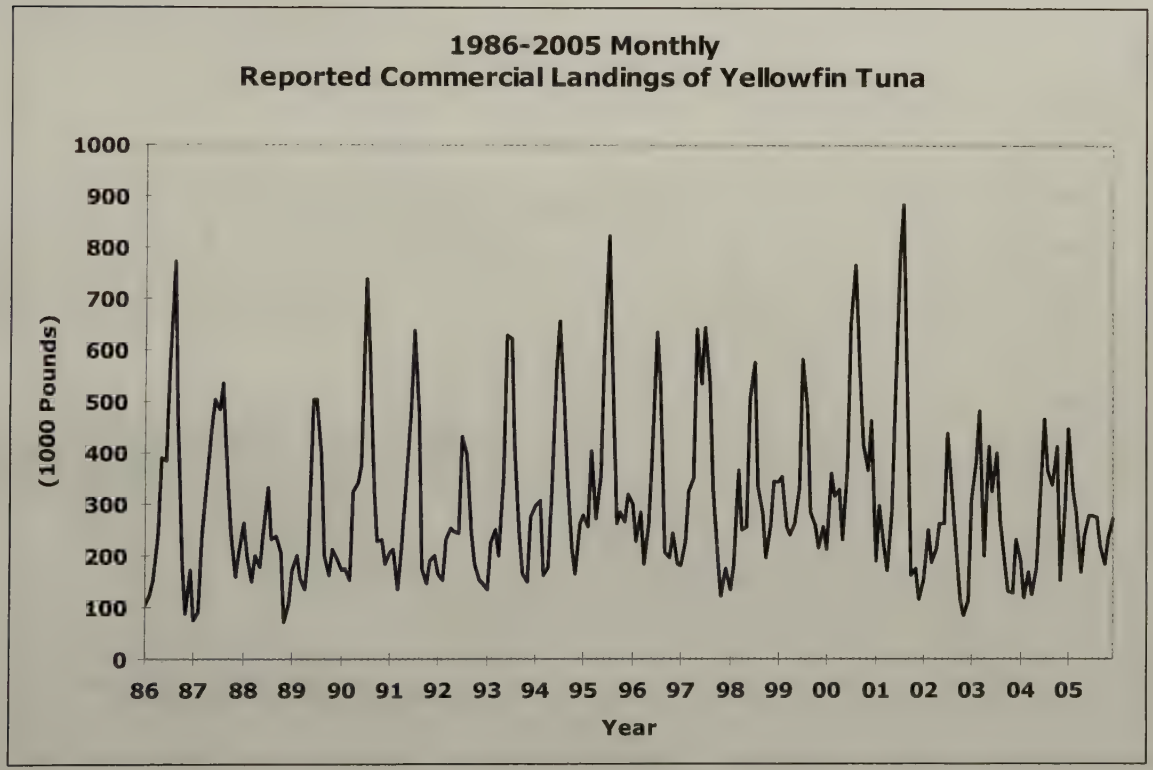


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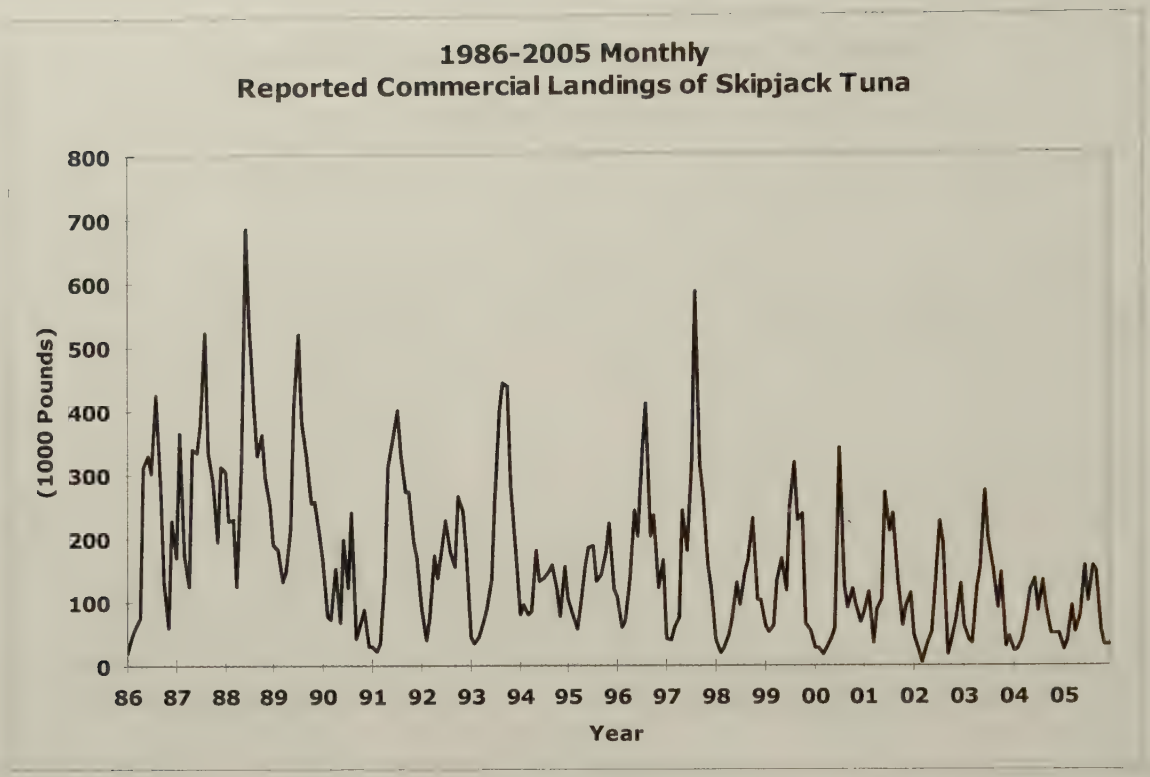


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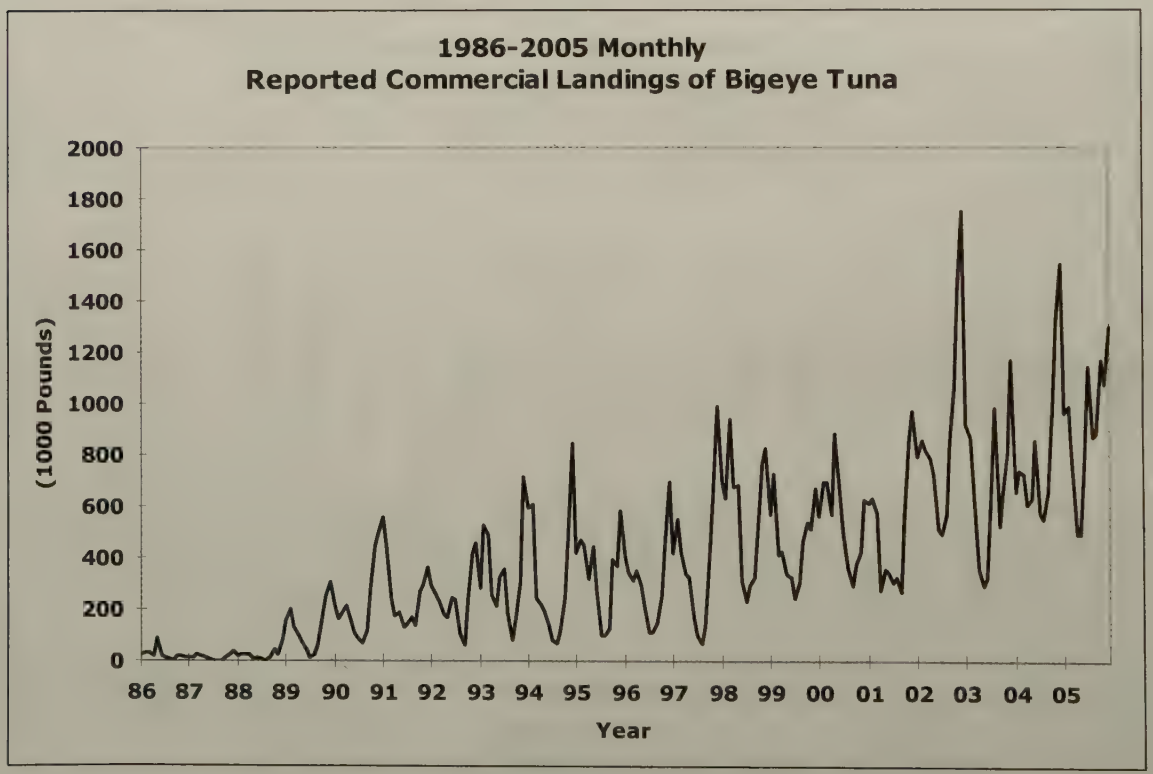


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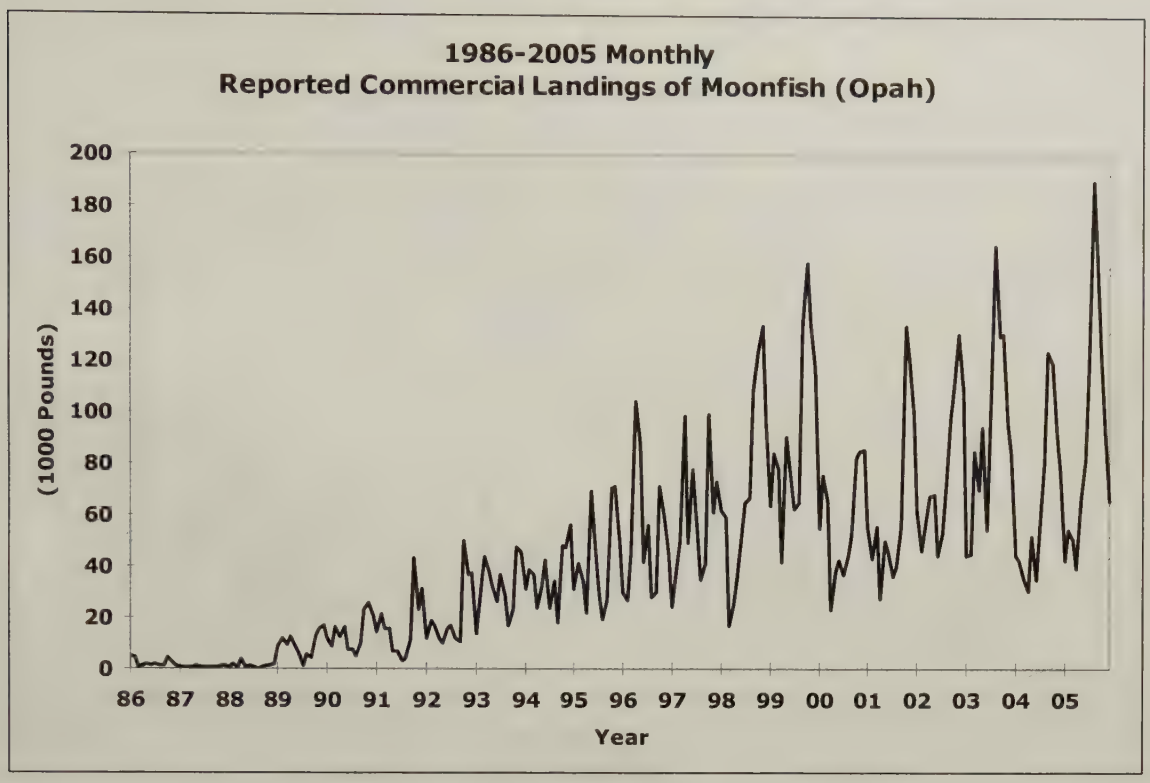


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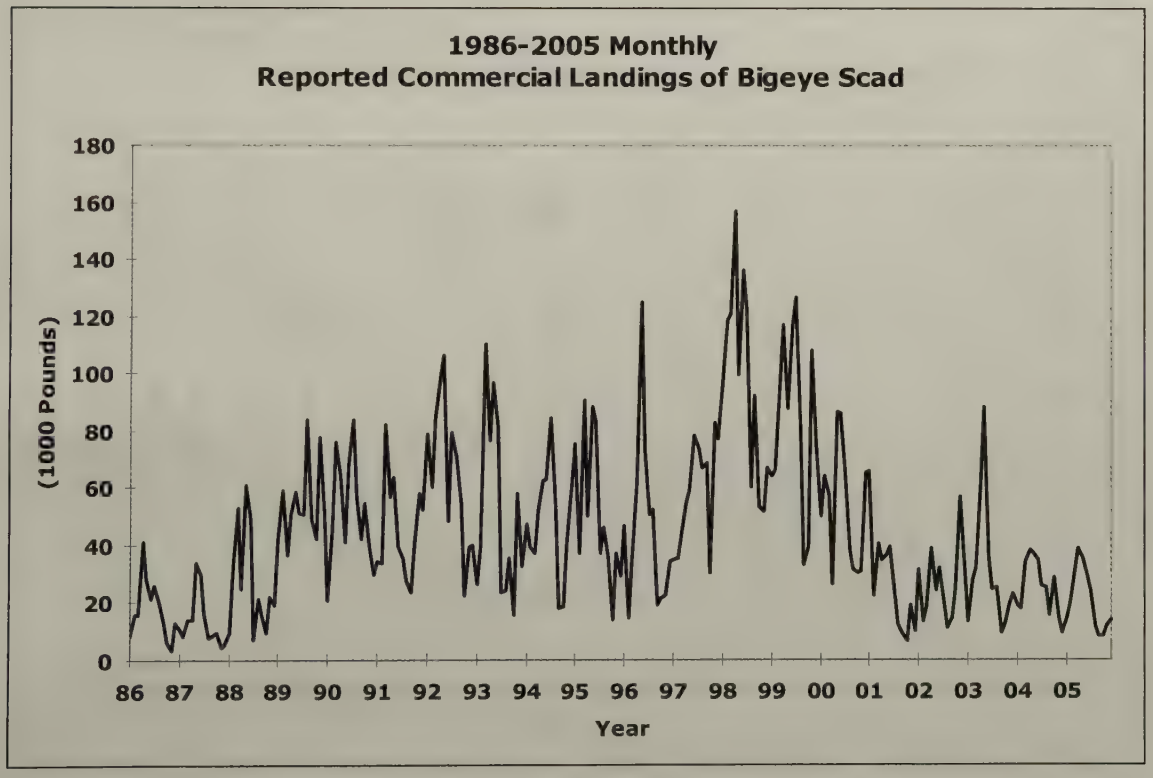


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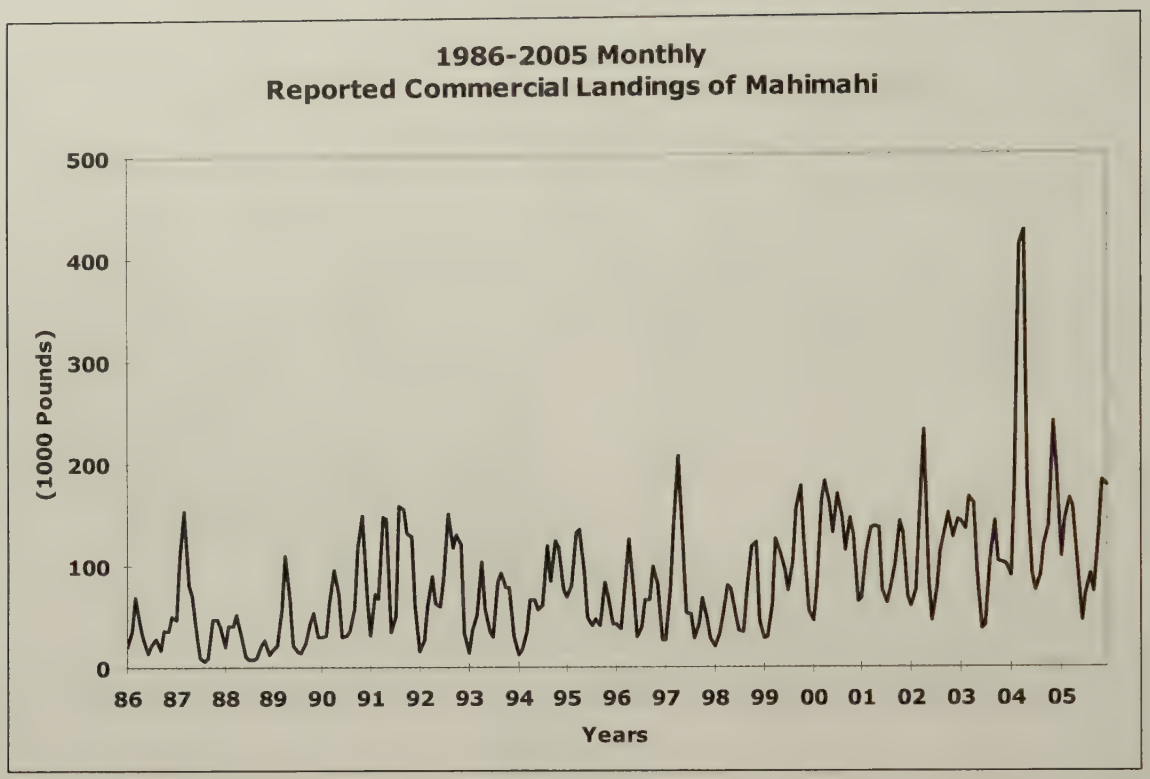


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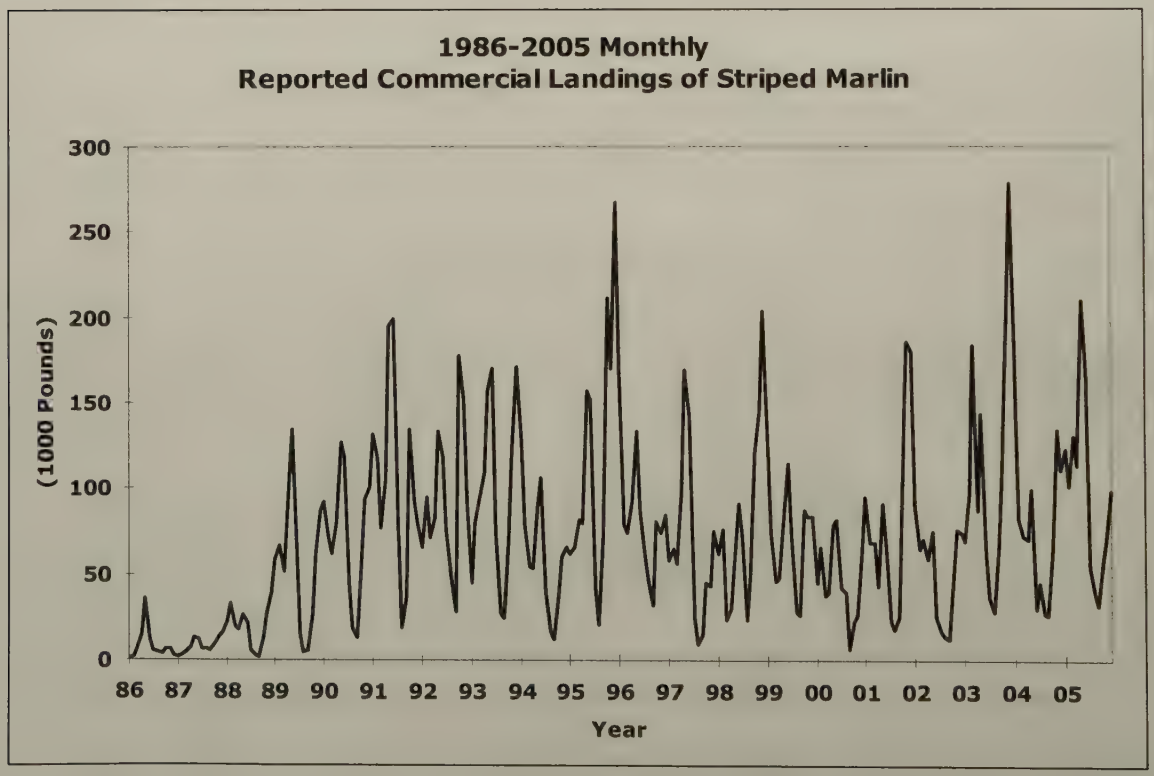


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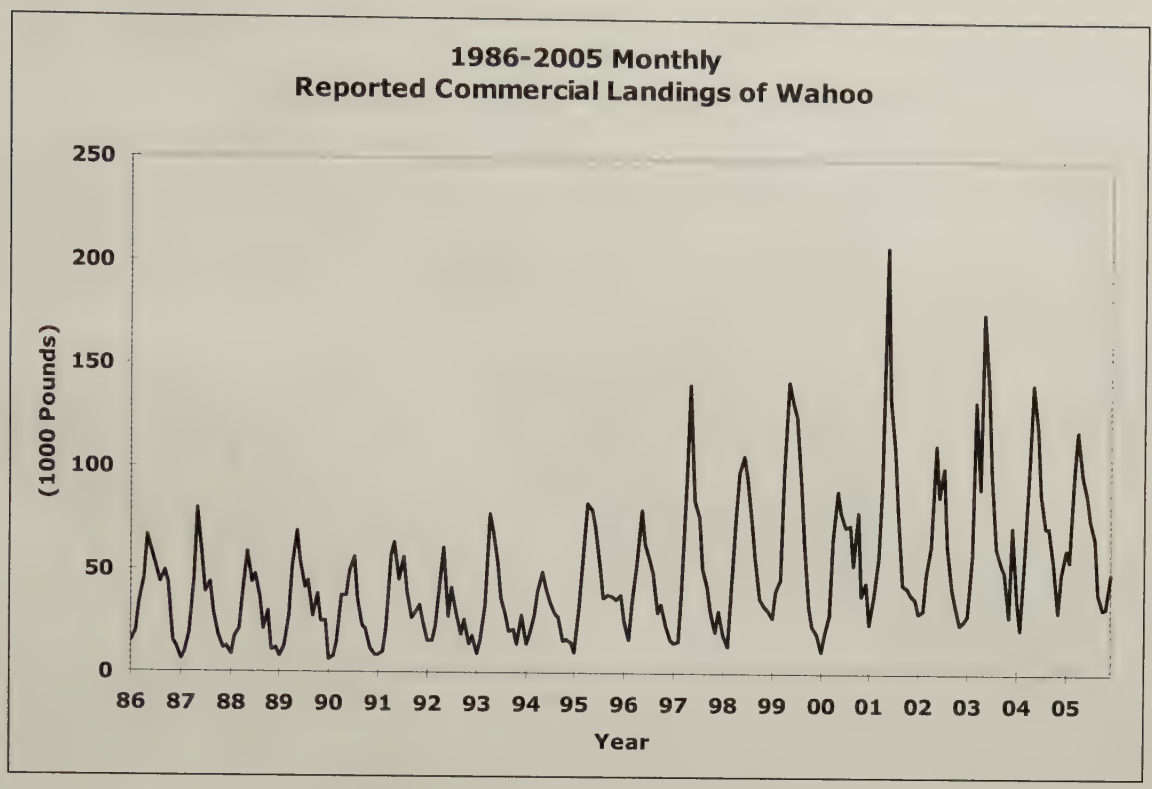


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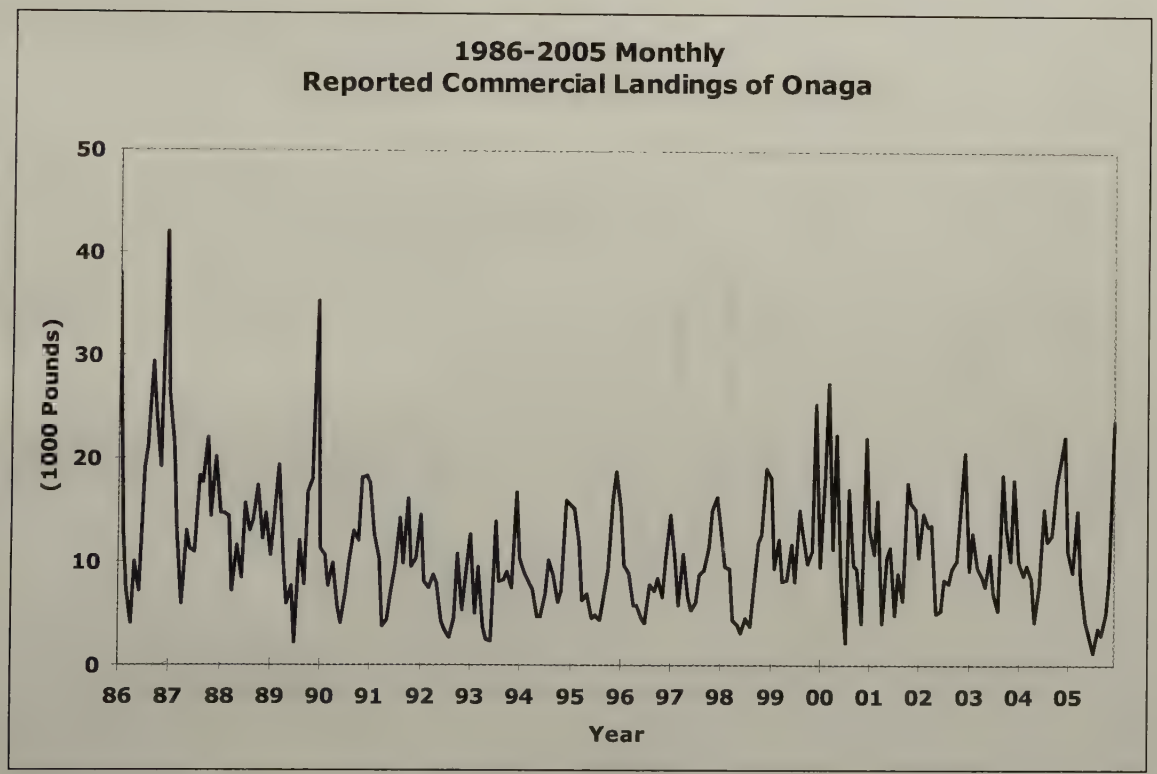


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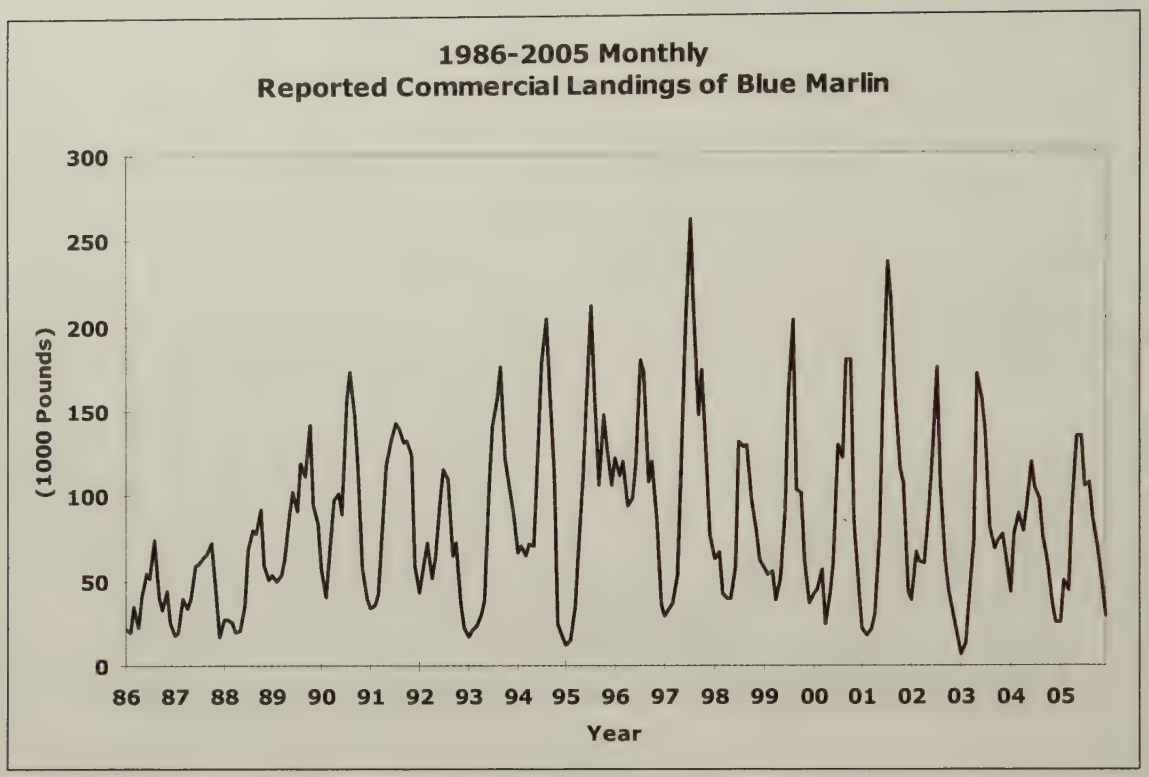


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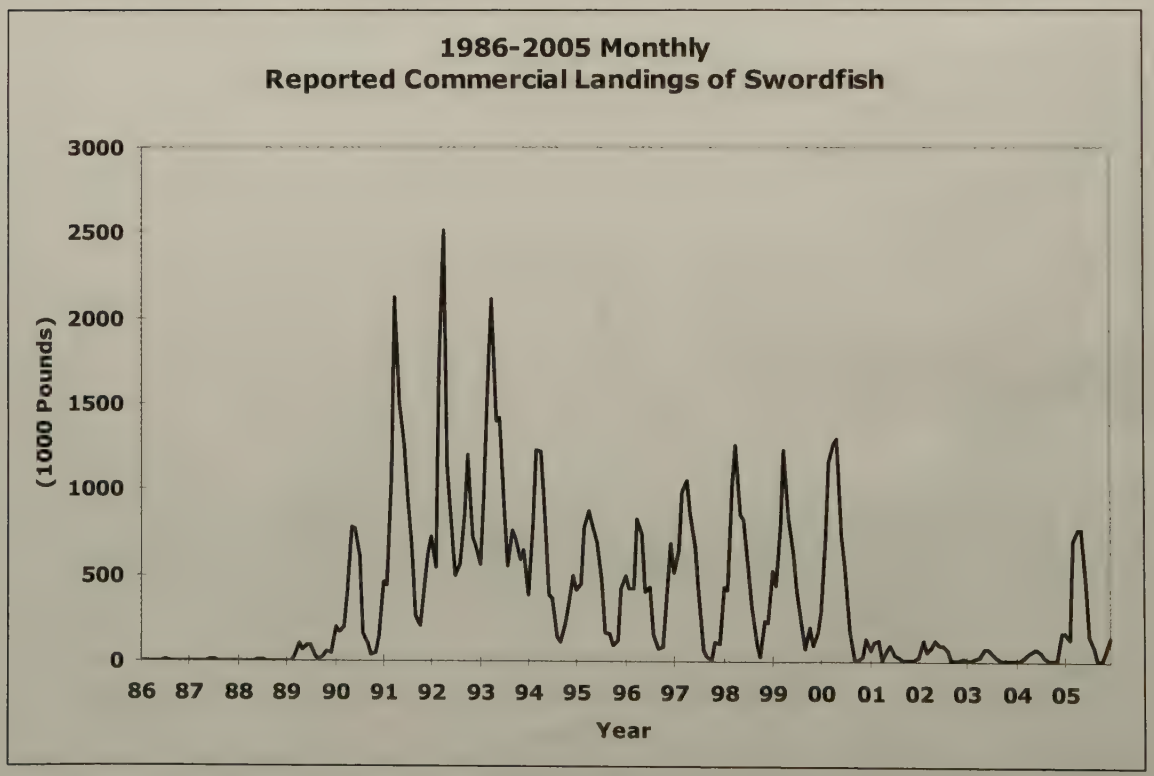


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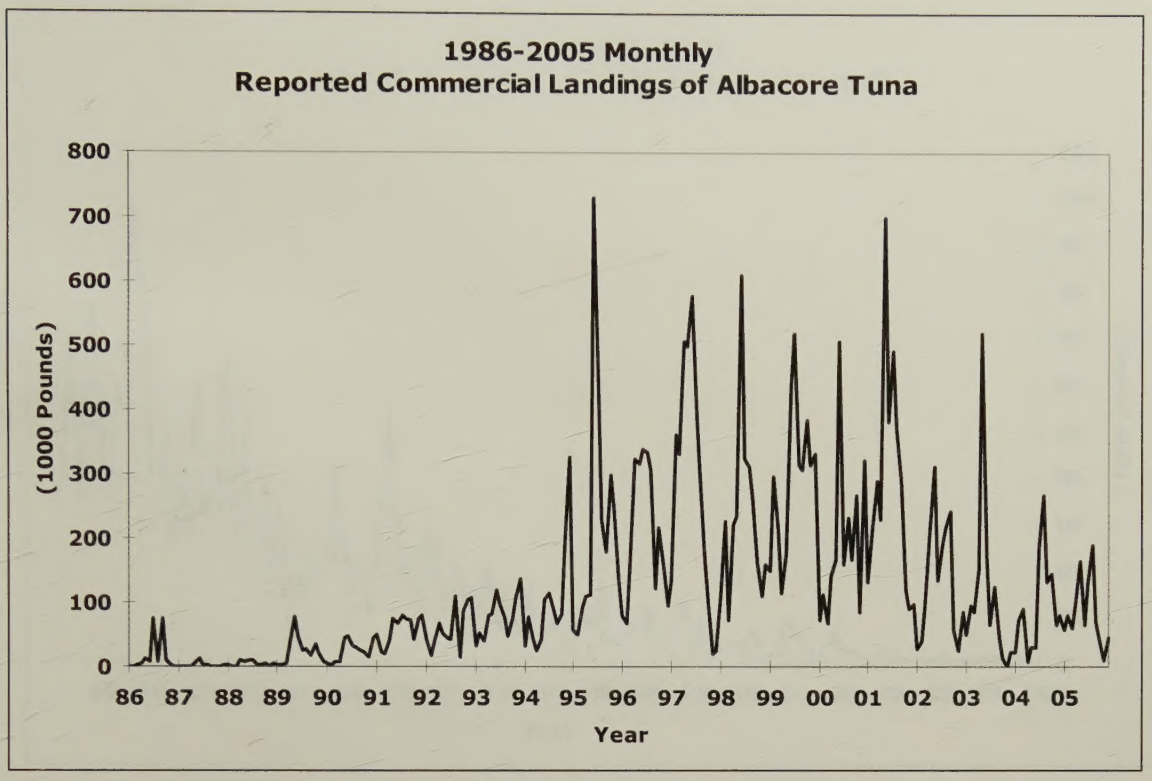


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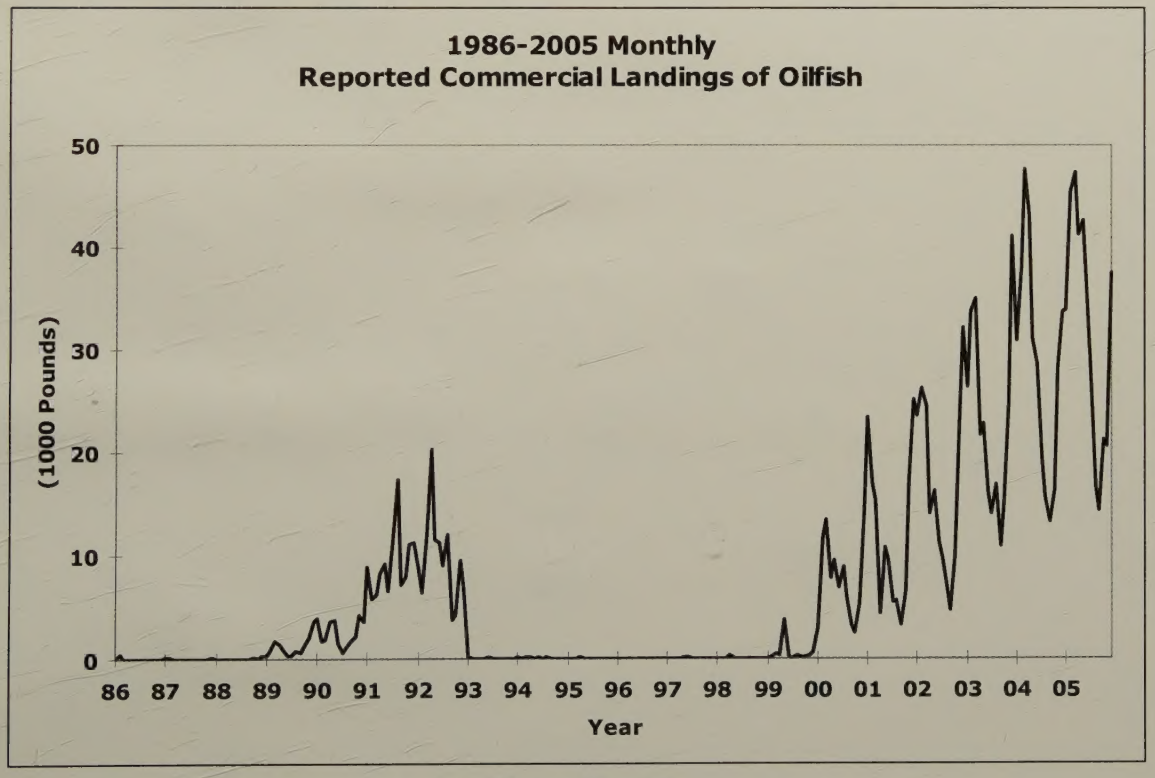


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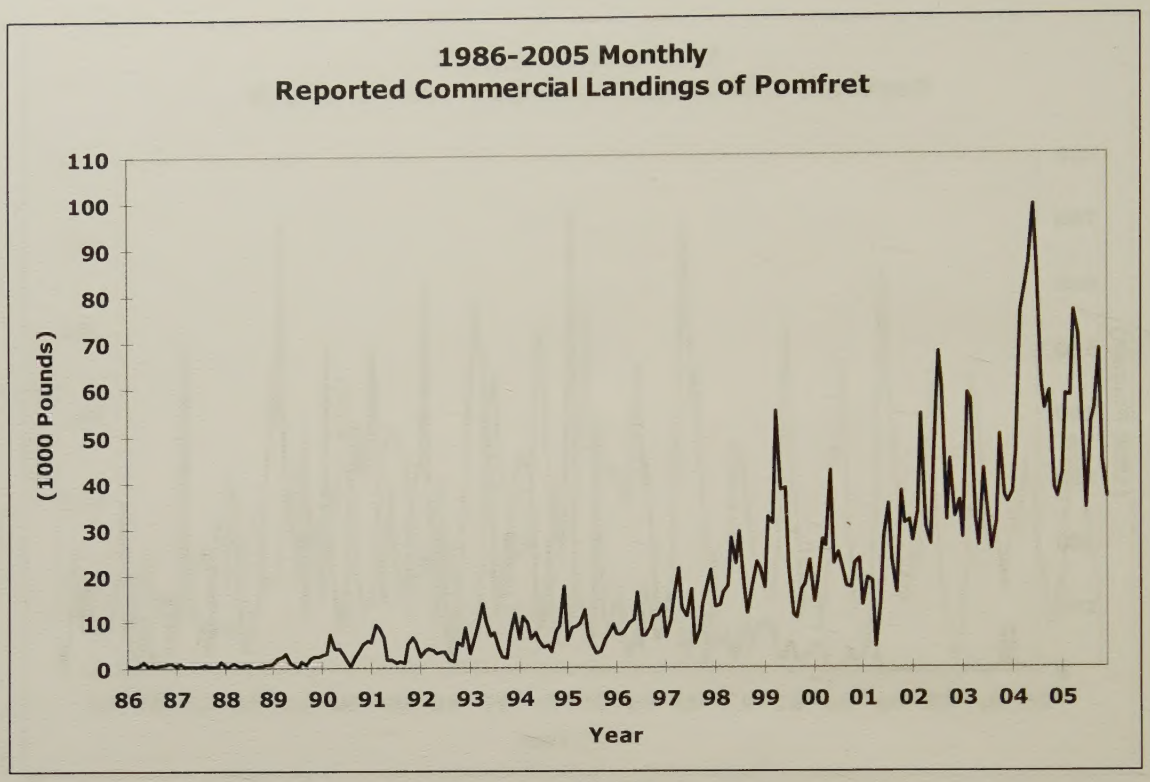
1986-2005 Monthly
Reported Commercial Landings of Pomfret
(1000 Pounds)
110
100
90
80
70
60
50
40
30
20
10
0
86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
Year

Figure D-4-14